

Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.

Wer 62-97

1903.
SEED
CATALOGUE.



WERNICH SEED CO.

27 JUNEAU AVE.
MILWAUKEE, WIS. U.S.A.

YENDALE & SONS (O. MIL.)

DEPARTMENT. Pages.

Novelties	2 to 6
Vegetable Seeds	7 to 26
Farm and Field Seeds	27 to 48
Flower Seeds and Bulbs	49 to 63

INDEX.

DEPARTMENT. Pages.

Roses, Plants and Vines	64 to 69
Trees Shrubs Small Fruit	70 to 73
Poultry Supplies	74 to 76
Incubators, Implements	77 to 96

Vegetable Seeds.

Page.	
Artichoke	7
Asparagus	7
Beans	8, 9, 40
Beets	10, 35, 36
Broccoli	9
Brussel Sprouts	9
Cabbage	2, 11, 12
Carrots	2, 13, 36
Cauliflower	10
Celeriac	13
Celery	13
Chicory	14
Chives	14
Corn, Salad	14
Corn, Sweet, Pop	14
Cress	15
Cucumber	3, 15
Egg Plant	15
Endive	15
Garden Lemon	16
Garlic Sets	15
Herbs	26
Kale	15
Kohlrabi	16
Leek	16
Lettuce	2, 16
Mango Melon	16
Martynia	16
Melons	17
Mushroom Spawn	18
Mustard	18
Okra	18
Onions	19, 20
Onion Sets	20
Parsley	18
Parsnip	18
Peas	21, 22, 40
Pepper	18
Potatoes	33, 34
Pumpkin	18, 36
Radish	3, 23
Rhubarb	23
Rutabaga	25, 35
Salsify	23

Vegetable Seeds.

Page.	
Scorzonera	23
Sea Kale	23
Sorrel	23
Spinach	24
Squash	24
Tobacco	25
Tomato	3, 24
Turnip	25, 35

Farm and Field Seeds.

Artichokes	36
Barley	27
Bird Seeds	41
Broom Corn	41
Buckwheat	28
Clover	6, 45
Clover Mixtures	47
Corn, Field	30, 31
Corn Fodder	32
Cow Peas	40
Field Beans	40
Field Peas	40
Flax Seed	28
Grass Seed	42, 43, 44
Grass Mixtures	46, 47
Hungarian Grass	37
Japanese Millet	39
Jerusalem Corn	38
Kaffir Corn	38
Lathyrus	40
Lawn Grass	48
Lentils	41
Lupins	41
Mangel Wurzel	35
Millet	37, 39
Milo Maize	41
Oats	28
Peanuts	36
Pencillaria	39
Potatoes	33, 34
Rape Essex	38
Rye	27

Farm and Field Seeds. Continued.

Page.	
Saccaline	41
Salt Bush	39
Sand Luzerne	6
Soja Bean	40
Speltz	29
Spurry	39
Sugar Beet	36
Sugar Cane	41
Sunflower	41
Teosinte	38
Tree Seeds	41
Turkestan Alfalfa	44
Velvet Beans	40
Vetches	37
Wheat	29
Wild Rice	41

Flower Seeds and Bulbs.

Pages 4, 5, 49 to 63.

Roses, Plants and Vines.

Pages 5, 64 to 69.

Trees, Shrubs and Small Fruit.

Pages 70 to 73.

Insecticides, Fungicides and Fertilizers.

Page 74.

Poultry Supplies.

Pages 75 and 76.

Incubators and Brooders.

Pages 77, 78, 79.

Eggs for Hatching.

Page 95.

Collie Dogs.

Page 96.

Household Dyes and Paints.

Pages 96 and 97.

Tools and Implements.

Page.

Apple Parer	94
Asparagus Knife	93
Bells	94
Blacksmith Outfit	86
Bolster Springs	92
Bone Mills	76
Carts	90, 91
Cherry Stoner	94
Churns	91
Clover Cutters	76
Cobbler Outfits	92
Corn and Cob Mills	86, 91
Corn Drills	83
Corn Knife	93
Corn Shellers	76, 84
Cultivators	80, 81, 82, 83, 87, 94
Fanning Mills	88
Feed Cookers	91
Feed Cutters	88
Gang Plow	87
Garden Dibble	93
Garden Line Reel	94
Grass Seeders	47, 85
Graters	91, 94
Green Bone Cutters	76
Grubbing Hoe	93
Hand Plows	82, 83
Hand Weeder	93
Harness Mender	92
Harrows	81, 82, 85
Hay Mower	87
Hay Press	87
Hay Rake	87
Hay Tedder	87
Jacks	85
Ladies' Floral Set	93
Meat Choppers	94
Mills, Grist	76, 86, 90
Plaster Sifter	94
Plows, 79, 83, 84, 87	83
Potato Planters	83
Potato Hiller	83
Potato Digger	83
Potato Parer	94
Poultry Netting	76
Powder Belows	94
Powder Sifters	91, 94
Pruning Saw	93
Pruning Shears	93
Raisin Seeder	94
Root Cutter	76, 91
Sausage Stuffer	94
Saw Frames	87
Scythes	93
Seed Drills	80, 81, 82, 83
Separator	90
Spinning Wheel	94
Sprayers	89, 91
Sweep Powers	85
Transplanting Hoes	93
Traps, Animal	91, 92
Tree Pruner	93
Vegetable Crate	90
Vine Cutter	93
Wash Machine	91
Whetstone	93
Wine and Fruit Press	94

PREMIUMS.

Go and see your neighbors when ready to send your order, show them this Catalogue of Valuable Seeds and Everything for the Farmer and secure their orders, thus increasing the amount of your remittance, and thereby securing either the following Cash Discounts or Premiums. No cash discount on Farm Seeds nor Premiums on Clover, Grass and Timothy Seed.

DISCOUNTS ON SEEDS IN PACKETS AND OUNCES.

Purchasers may make selections of Vegetable and Flower Seeds in "Packets and Ounces only" at these discounts:

For 25 cents select Seeds in packets and ounces amounting to	\$0.30
For 50 cents select Seeds in packets and ounces amounting to .....	.65
For \$1.00 select Seeds in packets and ounces amounting to	1.30
For \$2.00 select Seeds in packets and ounces amounting to	2.70
For \$3.00 select Seeds in packets and ounces amounting to	4.00
For \$4.00 select Seeds in packets and ounces amounting to	5.50
For \$5.00 select Seeds in packets and ounces amounting to	7.00

Secure your neighbor's orders. You can have them for the asking. They require seeds. By selling \$7.00 worth of Vegetable and Flower Seeds you earn \$2.00. Easy, try it.

DISCOUNTS ON VEGETABLE SEEDS IN BULK.

From Catalogue Prices by the 1/4 pound, 1 pound, peck or bushel, when cash is sent with order, purchaser may deduct 5 per cent. on an order from \$3.00 to \$5.00, and 10 per cent. on an order from \$5.00 to \$10.00. This discount refers to Vegetable Seeds only, and not to Potatoes, Clover, Grass, Bulbs, Plants, Farm Seeds, nor to Seeds in packets and ounces.

POULTRY....SUPPLIES.

Our line being so large and not having space in this Catalogue to describe all the Supplies carried in stock, we issue a Special Poultry Supply Catalogue which we will be pleased to send free to all who ask for it.

PREMIUMS ON FARM AND FIELD SEEDS.

An hour spent with your neighbors, soliciting orders for our Farm and Field Seeds entitles you to one of the following premiums, besides getting the Seeds cheaper, as you will notice, the greater the number of bushels the cheaper the price.

Orders netting \$5.00—	Columbus Whetstone.
Orders netting \$7.50—	2 Whetstones
Orders netting \$10.00—	Gem Corn Sheller
Orders netting \$15.00—	Gem Corn Sheller and Whetstone
Orders netting \$25.00—	No. 1 Farm Bell, Wt. 40 lbs.
Orders netting \$35.00—	No. 3 Farm Bell, Wt. 75 lbs.
Orders netting \$50.00—	No. 4 Farm Bell, Wt. 100 lbs.

The above Premiums are only given with Farm and Field Seed orders and cannot be applied to orders for Grass, Clover and Timothy Seed. For special Premiums with Grass Mixtures, see page 47 of this catalogue.

CARBOLINEUM.

A Wood Preserving Paint of Much Value to the Farmer. For Painting Barns, Sheds, Crlbs, Fences, etc. For Further Description and Prices, see page 97.

SEASON—1903.

To Our Patrons:

It is with pleasure we present our Seed Annual for 1903 to the thousands of patrons with a feeling of gratitude for their liberal patronage in the past, and perhaps, it is unnecessary to add that we hope for a continuation of the same. It shall be our aim to serve you as well in the future as we have in the past.

Our Catalogue, consisting of 100 Pages, is full of interesting things from cover to cover. While we have labored to make it attractive and instructive, the main object is a business one. In the compilation of it we have endeavored to give a concise description of

Everything for the Farmer.

Illustrations are exact photographic reproductions and Exaggerations are wholly eliminated

Our prices are as low as they can be made consistent with quality, still we are always ready to meet honest competition. In conclusion we can only wish for a share of your needs in our line for 1903.

Respectfully Yours,

WERNICH SEED CO.

A Few Things to Remember.

Order Early—"In time of winter prepare for spring." Order early, and have your seed on hand when it is time to sow.

Address—No matter how often you order, always give your Name, Post Office, County and State in full. When Freight or Express Office is different from Post Office, give both.

Remittances—Cash with Order. Remittances may be made at our risk by Draft, Money Order or Cash by Express, or in registered letter.

For the convenience of our Patrons we enclose a blank Application for Post Office Money Order, which must be filled out by the sender, and which will be held by your local Postmaster for four years from date of issue.

Seeds Postpaid—We deliver free all Seeds (Oz., 1/4 lbs., lbs., Pints and Quarts) Plants, Bulbs, etc., at prices quoted excepting where otherwise noted.

Shipping—When customers do not state clearly how and where to ship, we use our own discretion.

Safe Arrival—We endeavor to secure the safe arrival of packages in every case. If packages do not arrive in due time, please notify, and we will at once trace the same. Except where noted, we make no charge for packing.

Errors—We are very careful in executing our Orders, yet in the rush of business in our busy season, errors sometimes occur, in which event we wish to be promptly notified, and we will rectify.

Guaranty—Complaints made that Seeds are not good cannot always be attributed to the quality. There are hundreds of causes other than poor quality to prevent the best of seeds from always giving satisfaction; such as sowing too deep, too shallow, in too wet or too dry soil, insects of all descriptions destroying the plants as soon as or before they appear, wet or cold weather, frosts, changes in the Seeds, induced by temperature, etc., therefore, while we exercise the greatest care to have all seeds pure and reliable, we do not give any warranty, expressed or implied, and we will not be in any way responsible for the crop.

SPECIAL NOTICE.

THE INCREASING DEMAND FOR POULTRY SUPPLIES AND THE

GROWING IMPORTANCE OF THIS DEPARTMENT OF

OUR BUSINESS NECESSITATES US TO ISSUE

A SPECIAL POULTRY SUPPLY CATA-

LOGUE WHICH IS MAILED

FREE TO ALL WHO APPLY FOR IT.

The most satisfactory method of securing this valuable literature is to send a small amount of money to the publisher, who will send you a copy of the catalogue. A trial will be made of the quality of the literature. A trial will be made of the quality of the literature. A trial will be made of the quality of the literature.

Novelties and Specialties for 1903.

Novelties for 1903 while not numerous, are worthy of attention. On the following pages we offer a number of selected Novelties and Specialties of more than ordinary merit. Much thought and care is exercised in making the selections for these pages, to enable us to list only varieties in which we have the fullest confidence.

Wernich's Extra Early Eureka Cabbage

As early as Wakefield. As hard as Hollander.

"Eureka!" Here we have it. Just what the Gardeners have been looking for, viz., an extra early and hard heading Cabbage. Wernich's "Three E" or Extra Early Eureka, wins the prize and justly deserves to be placed at the head of Early Cabbages. It is as early as the earliest of Wakefield's and as hard as a cannonball. It is a flat cabbage; grows very compactly, thus yielding a much larger crop than other early varieties and a splendid keeper for an early sort on account of its solidness. Unexcelled for market and garden use and everyone should give it a trial. Pkt., 10 cts.; oz., 50 cts.; $\frac{1}{4}$ lb., \$1.50.



Wernich's IMPROVED DANVERS Carrot.

The Market Gardeners Carrot.

Undoubtedly the best carrot for general crop and esteemed by market gardeners for its handsome tapering form and rich dark orange color. The seed we offer is grown from carefully selected stock. Wernich's Improved Danvers is far superior to the well known Danvers in shape, color and general appearance, while the flesh is tender and sweet. It is almost entirely free from core, and as a cropper outyields all Carrots we know of. An excellent bunching Carrot for market. Will grow on all kinds of soil, and as a keeper has no equal. Pkt., 10 cts.; oz., 15 cts.; $\frac{1}{4}$ lb., 35 cts.; 1 lb., \$1.00.

Wernich's New Forcing HEAD LETTUCE.

WERNICH'S PRIVATE STOCK.

Excellent for Cold Frames.

Has no Equal for Open Ground.

The most satisfactory variety for producing fine, large, solid and well balanced heads, excellent for cold frames or growing in the open ground. Very sure and compact heading and resists the sun a long time before shooting into seed. Leaves are curly and crumpled. Market Gardeners will find this a good yielding sort, a ready seller and a money getter. We advise all Gardeners to, at least, make a trial this year. We have the only genuine Seed of this valuable Lettuce. A trial will convince you that "Wernich's Private Stock Lettuce" has yet to find its equal. Pkt., 5 cts.; oz., 20 cts.; $\frac{1}{4}$ lb., 50 cts.; 1 lb., \$1.50.





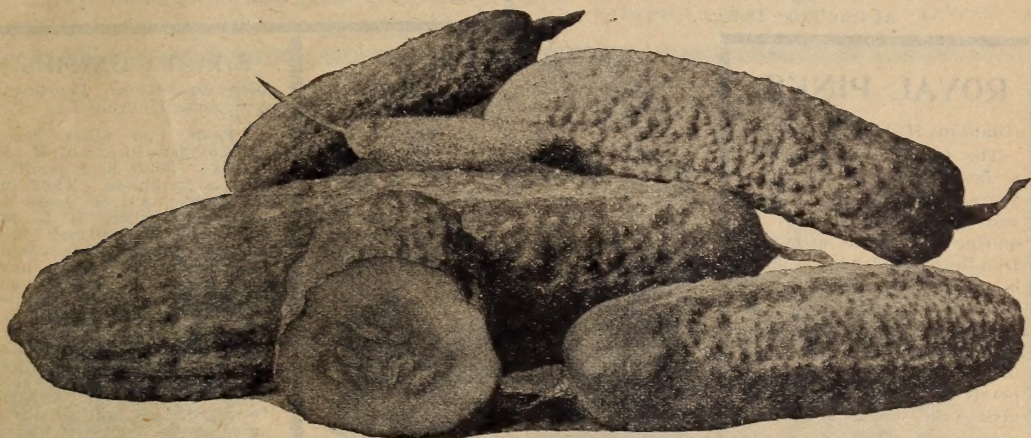
WERNICH'S
FORCING
RADISH

“Early
Erfurt.”

A Very Superior Early Forcing Radish,
It Will Mature in 20 Days.

Quick growth is essential to produce crisp and tender Radish. We have it in “Early Market,” which matures in 20 days after sowing. This makes it the most valuable for forcing or out door culture. The tops are quite small, the roots globular with deep red skin; flesh white, crisp and tender. It has a pleasant flavor, very mild. On account of smallness of tops it admits of very close sowing. Well suited for sowing under glass. Pkt., 10 cts.; oz., 15c.; $\frac{1}{4}$ lb., 40 cts.; 1 lb., \$1.25.

Cumberland Cucumber.



It is a hybrid of Parisian Pickling and Peerless White Spine, retaining the long even growth of fruit, the solidity of flesh, the crispness and excellent flavor of the former, and the hardness and great productiveness of the Peerless White Spine. It is a rapid, strong and vigorous grower and very prolific. The Pickles differ from all other hardy sorts in being thickly set with fine spines over the entire surface except the extreme stem end. During the whole period of growth, from the time they first set until fully grown, the form is exceptionally straight, thus being as choice a slicing variety as it is for pickles. Pkt. 10 cts.; oz., 25 cts.; $\frac{1}{4}$ lb., 75 cts.; 1 lb., \$2.50.

THE
EARLIEST
LARGE
TOMATO

“Wernich’s
German
Market.”

RIPENS TO THE STEM.

Large. Smooth. Solid.

Unquestionably the best large red and smooth Tomato for market, canning or family use.

It is the first of the large Tomatoes to ripen and not inclined to crack. Flesh is thick and solid and of fine quality. Bears fruit until frost. Ripens to the stem with no hard core and few seeds. Quality superior. It ships well and sells on sight. It is a strong, vigorous grower, the vines demanding plenty of room. Pkt., 10 cts.; oz., 40 cts.; $\frac{1}{4}$ lb., \$1.25; 1 lb., \$4.00.





African Lilac Daisy.

THE AFRICAN LILAC DAISY.

(*Arctotis Grandis*.)

The handsome appearance and elegant habit of this new plant are certain to make it popular. This annual is a native of Southwest Africa, but **grows perfectly in our climate.**

It forms profusely branched bushes of about 2 to 2½ feet in height and breadth. The leaves are soft and whitish. Its flower heads, borne on long stems and rising well above the foliage, are large and showy, from 2½ to 3 inches across; being pure white on the upper surface, reverse of petals pale lilac. Under the influence of bright sunlight the flowers spread out almost flat, and the pure white of the ray florets contrasts beautifully to the light blue disk with its slightly projecting white stamens, a lovely combination of colors.

Being of very **easy culture**, on a suitable **sunny place**, these plants produce their flowers most **abundantly** and in **constant succession** from early summer until autumn.

This fine novelty we recommend to all our customers for a trial. Pkt., 10 cts.; 3 for 25 cts.

ROYAL PINKS.

(*Dianthus Heddewigi Nobilis*.)

The Indian Pink has been a favorite flower for many years, being of easy culture and a graceful bloomer, requiring but little attention. *Dianthus Heddewigi Nobilis*, is an improvement of the old fashioned variety. The flowers are of a beautiful shape and from three to four inches in diameter. The petals are frilled and fringed, giving the flower a graceful appearance. The colors are, first of all, a deep yet very bright blood-red, then shade to carmine and pink and even white. The plant grows vigorous and tall, and gives lots of first-class cut-flowers, which will keep a full week in water. The more the blooms are cut, the more the plant will produce. Pkt., 10 cts.; 3 for 25 cts.



Royal Pinks.

SHASTA DAISIES.

(*Chrysanthemum Leucanthemum Hybridum*.)

"To-day no other flower can compare in extent of usefulness. Their first qualification is hardiness. They can be grown out of doors by everybody where it is not cold enough to kill oak trees. Second, they are perennial, blooming better and more abundantly each season. Third, they can be multiplied rapidly by simple division, and they are not particular as to soil. Fourth, they bloom for several months—California nearly all the year. Fifth, the flowers are extremely large and graceful—averaging about a foot—often more in circumference, with three or more rows of petals of the purest glistening whiteness, on single, strong, stiff, wiry stems, nearly two feet in length." Pkt., 25 cts.

NEW GIANT FRAGRANT CENTAUREA.

(*Centaurea Imperialis*.)

This new Centaurea represents the best that has been produced in these beautiful Summer-blooming plants. The bushes are about four feet high, of enormous dimensions, and are covered with large, beautiful flowers and very fragrant. The flowers will keep for over a week in water, if cut just when they are about to open. It is of easiest culture. The color variation is very great, almost infinite. When well known there will be no garden without this beautiful new flower.

Pure White. One of the best white flowers for cutting.

Armida. Very delicate color, pink with white tinge.

Favorita. Brilliant rose.

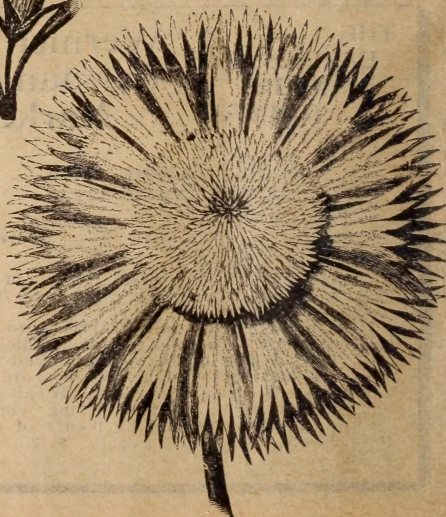
Graziosa. Intense dark lilac.

Splendens. Brilliant dark purple.

Variabilis. White, marked purple, fading to rose.

Price of any above 6 kinds: Pkt., 10 cts. Any 3 pkts., 20c; 6 pkts., 1 of each kind, for 35 cts.

New Giant Fragrant Centaurea. All colors mixed. Per pkt., 5 cts.



New Giant Centaurea.



Resurrection Plant—Closed.

The Resurrection Plant

“Semper Viva”

(Selaginella Lepidophylla.)
Mentioned by Isaiah in the Bible.

“Always Life”

“THE ROLLING THING BEFORE THE WHIRLWIND.”

This shrunken, Rounded Ball of Tightly-Coiled-up Leaflets, dry and apparently dead, will live for hundreds of years without being planted or watered. When immersed in tepid water one frond-like tip unfolds slowly outward, then another and another, until in a short time the whole plant has resurrected, flattened out into a plate-like shape, and transformed into a Lovely Rosette of beautiful velvet green, fern like moss, both odd and marvelous.

It will grow nicely if planted in a warm, moist, shady place, but being nearly or fully matured in size and growth when gathered, it need not be planted at all, as the plant will keep just as well in a trunk or any other dry place in the house for ages in a perfectly fresh and healthy condition and can be resurrected at will, time and again, indefinitely, by being allowed to curl up and become dry each time, after having been fully opened out by water.

The first picture is from a photograph of the apparently dead plant (reduced in size) the inside fronds of which are rolled up like a scroll; the color is somewhat like that of iron rust, being of a much more dead appearance than old dried hay. Almost perpetual drouth prevails on its native mountains, hence the name it is called or known by there is **LIFE.** Price, each, 10 cts.; 3 for 25 cts.



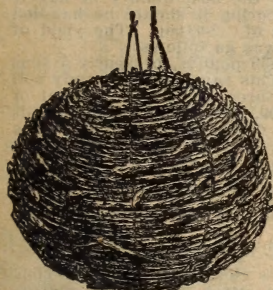
Resurrection Plant—Open.

“SEMPER VIVA” which means “ALWAYS

The “Mikado” Fern Ball.

“The Plant Novelty of The Age.” New.

(Imported from Japan.)



Fernball. Dormant.

every two days until growth is started, after which sprinkle occasionally as required. To use in fern dish, cut ball in halves, placing flat side down, thus getting two dishes of beautiful ferns. The Fern Ball may be allowed to dry up at any time and set away, and started again by watering as before.

Price, each, 60 cts.; 3 for \$1.65, postpaid.

This ball, 7 to 9 inches in diameter, consists of Fern Roots about the size of a pencil, woven outside and around a ball of moss. These roots produce beautiful sprays of Ferns from eyes or buds at nearly every inch of their length. Thus the whole surface of the ball soon becomes covered with Fern sprays. They may be suspended in any part of the room or grown on a stand or table.

DIRECTIONS FOR STARTING.

Place Ball in water for 15 minutes and then suspend in any desired position; repeat



Fernball in Leaf.

Moth King.

(Phlectranthus Fruticosus.)

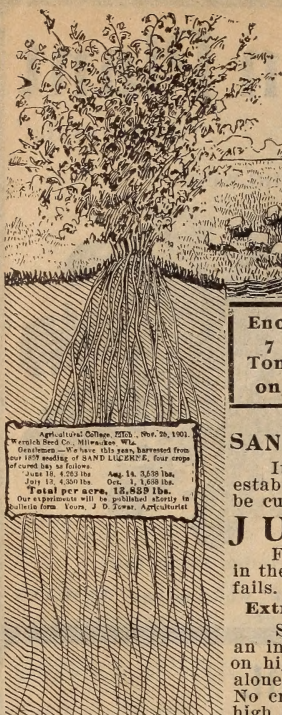


An ornamental Pot Plant of more than ordinary merit and one that should have a place in every window box or living room. Its value, however, lies more in its usefulness than as a thing of beauty. It contains medicinal qualities, especially as a cure for Gout; apply a handful of green leaves from this wonderful plant on the afflicted member at night before going to bed and the next morning all pain has disappeared.

Its principle value, however, is as an enemy to all insects, which cannot survive the odor which is that of a strong musk. Flies will not stay in the same room containing this Plant. Leaves dried in the shade and placed in such places where bedbugs and cockroaches reign supreme will storing them for the summer months will insure safety from moths, as the storing them for the summer months will be safe from moths, as the latter don't relish the odor any more than other obnoxious insects.

Seed. Per Packet (10 seeds) 25 cts.; (25 seeds) 50 cts.

Plants. Each 25 cts.; 3 for 60 cts.; dozen \$2.00 postpaid.

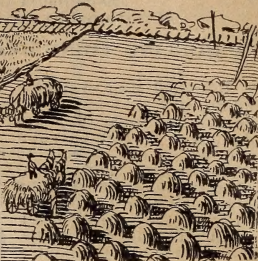


THE CLOVER FOR SANDY SOILS. SAND LUCERNE MEDICAGO FALCATO-SATIVA.

UNQUESTIONABLY
THE
GREATEST
Of All the Varieties of
ALFALFA

and certainly the greatest
hayproducing Clover ever
introduced.

Enormous Crops
7
Tons **HAY** Per
Acre
on Sandy Soils.



Agricultural College, Mich., Nov. 20, 1901.
We call Seed Co., Milwaukee, Wis.
Dear Sirs:—We have this year, harvested from
our 1897 seedling of SAND LUCERNE, four crops
of cured hay as follows:
June 15, 4293 lbs. Aug. 14, 4350 lbs.
July 13, 4350 lbs. Oct. 1, 1688 lbs.
Total per acre, 13,839 lbs.
Our experiments will be published shortly in
this form. Yours, J. D. Jones, Agriculturalist

SAND LUCERNE THRIVES WHERE CLOVER FAILS.

It withstands the severest winters and resists the worst drought where once established. It is a positive drouth resister and cannot be winter killed. It can be cut 3 to 6 times a season, depending on soil and climate.

JUST THE CLOVER NEEDED

For the Arid Plains of the West; the Sandy Soil of Michigan; the Cold Climate in the North and the Hot and Dry Summer of the South. Once established it never fails.

Extract from Bulletin No. 198. "Report of Michigan Experiment Station."

Sand Luzerne is a leguminous, perennial plant, resembling Alfalfa. It develops an immense root system, and is capable of producing four crops of hay annually on high, sandy soil without irrigation. The best seedlings are obtained by sowing alone, on well prepared ground, in early May, using about 15 lbs. of seed per acre. No crop is expected the first year, but two or three mowings with the knives set high to destroy weeds is advisable. The strength and productiveness of the plant improves with age and one good seeding ought to last many years. It withstands the severe climate of Michigan when grown on dry sandy land. The tests on low and heavy clay lands are not yet completed. To make the best quality of hay it should be cut as soon as the blossoms appear and in curing it should be handled in the field as little and quickly as possible, to avoid loss of "sawdust." The yield of cured hay per acre in 1901 from seeding made in 1897, was as follows:

June 18th, 4293 pounds per acre.
July 13th, 4350 pounds per acre,
Aug. 14th, 3538 pounds per acre.
Oct. 1st, 1688 pounds per acre.

A total of 13,839 pounds, or nearly 7 tons of hay per acre. This same plot of sandy soil produced in 1898, three crops with a total of 6800 pounds; in 1899, four crops, 10,580 pounds and in 1900 four crops, 12310 pounds, or a grand total of

**43529 POUNDS EQUAL TO 23¾ TONS
of Cured Hay Per Acre in 4 Years.**

And this on land that had received no fertilizer of any kind since the seed was sown.

IT CAN'T BE BEAT.

for a hay crop, and as for green forage hay or pasture its close resemblance to common Alfalfa argues for it all that is claimed for the latter. Attaining mature growth early in June, one can easily manage it for a continuous soiling crop throughout the growing season. As hay it is relished by all farm animals; its high protein contents suggesting it as a substitute for part of the grain ration. As a pasture crop, one trial with sheep showed it capable of furnishing a liberal supply of feed throughout the season and that the plant was able to withstand severe pasturing. Like the Alfalfa the Sand Luzerne is a deep rooted perennial plant, sending its tap roots to distances of 12 to 15 feet and over, into the ground with numerous large branching roots which seem to increase and multiply as the plant grows older. In the fall of 1899 some two year-old plants were traced, in light sandy soil, to the depth of seven and one-half feet, where the tap root was one-eighth of an inch in diameter. It has the special advantage over Alfalfa of being able to withstand the severe winters and climate of northern Michigan, while the Alfalfa is very easily killed out. It is also said that Alfalfa is liable to be crowded out by the June grass, sorrell and other weeds. At the Michigan State experiments, no difficulty of this nature has been noticed with Sand Luzerne.

CULTURE.

Sow at the rate of 15 lbs. per acre. The ground should be carefully prepared early in the spring, by thorough deep plowing, followed by the roller, unless the ground is a clay loam, or clay. Follow up with a harrow sufficiently to prepare a good seed bed as for wheat or corn. The seed should then be sown early enough in the spring, say about May 1st to 15th, to give it the benefit of spring moisture. In harvesting the crop, care must be taken to cut as soon as the blossoms appear or the plants might get too mature and thus become woody and valueless.

PRICES.

Postpaid per lb., 35 cts.; 3 lbs., \$1.00. Not prepaid, per lb., 25 cts.; peck, \$3.25; bu., \$11.75; 100 lbs., \$18.50.

WARNING:

Certain Seed Dealers are offering Sand Luzerne at such a ridiculous low figure that we doubt the genuineness of the Seed, in fact, we are convinced it is not genuine, for when one of them was asked to guarantee his Seed to be true to name, he positively refused and had no excuse to offer for doing so. This we think is ample proof that he was offering ordinary Alfalfa for genuine Seed, as the Seed of both looks almost alike.

FOR TURKESTAN ALFALFA—SEE PAGE 44.

A FEW REPORTS ON SAND LUCERNE.

West Branch, Mich.
Sand Luzerne is a great acquisition for our light soils in northern Michigan. I have a 2 year old field which was cut 3 times this season and at the present time stands 3 feet in height. This on very deep sandy soil.

Edw. E. Evans.

Traverse City, Mich.
Sowed the Sand Luzerne under unfavorable circumstances on poor soil. Close by on better soil I sowed Red Clover. The latter did not pay to cut it while the Sand Luzerne thrived. Cattle eat it readily. I wish my entire farm was seeded with it.

John F. Miller.

Ann Arbor, Mich.
Sowed about one square rod. It is a corner lot in town and the ground used had been graded, and twelve or sixteen inches of the top soil scraped off, leaving a bed of sand and gravel on which the seed was sown. The seed germinated in less than a week and furnished 3 good crops with a fourth as good as the three that were cut.
Captain
H. C. Danforth.

WERNICH'S

LIST OF CHOICE.

Vegetable Seeds.

We desire to call particular attention of our friends and patrons to the following List of Vegetable Seeds, which will be found to embrace all the leading and most popular varieties in cultivation.

We exercise the greatest care in the selection of our stocks of Vegetable Seeds, discarding all varieties that in our experience have proved unworthy of cultivation.

All our Vegetable Seeds are true to name, and their germinating qualities having been effectually tested, they are confidently offered as being **THE VERY BEST THAT CAN BE PROCURED.**

Our prices include postage on Vegetable Seeds in packets, ounces, $\frac{1}{4}$ lb. and pounds. If the purchaser will pay the freight charges, 10c per pound may be deducted from the prepaid prices herein offered.

On Beans, Peas, Corn and Onion Sets, we give both prepaid charges and not prepaid charges. Purchasers will please notice.

Cash Discounts

ON PACKETS AND OUNCES
ON ALL OUR SEEDS.

Customers Sending	\$1.00	May Select	\$1.30	Worth of Vegetable and Flower Seeds in Packets and Ounces.
	2.00		2.70	
	3.00		4.00	
	4.00		5.50	
	5.00		7.00	



Artichokes.

coarse, strawy manure or leaves, which should be removed in the spring. A bed of 6x60 feet is ample for an ordinary family, and when well established is good for twenty years.

One ounce of seed sows 60 feet of drill. About 400 plants to the ounce.

Connover's Colossal. The most approved and standard sort. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; 1 lb., 50c.

Giant Argenteuil. The largest variety. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 30c; 1 lb., \$1.00.

Palmetto. Of southern origin; a bright green color. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; 1 lb., 75c.

ARTICHOKE.

German—Artischoke. French—Artichaut.

Sow in April in hot bed or boxes, and when the ground is ready transplant in hills three feet apart, and the rows two feet apart.

Large Green Globe. The standard variety. Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., 80c; 1 lb., \$3.00.

ASPARAGUS.

German—Spargel. French—Asperge.
Spanish—Esparragoe.

To grow plants from seed, sow in drills about 1 inch deep, in rows a foot apart. Keep the soil mellow and free from weeds during the summer, "thin out," and the following spring the plants may be set out in beds six feet wide, with a path two feet wide on each side; set the plants about a foot apart each way, four inches below the surface. The deeper the soil and the more manure used, the greater the crop. Annually, after the first cutting, the bed should be given a liberal top dressing of manure, ashes and salt, which should be well cultivated into soil. As soon as the tops turn yellow in the fall they should be cut and removed from the beds, and just before winter cover the beds with 4 inches of



Giant Argenteuil Asparagus.

We deliver all Seeds offered on this page free to any Postoffice in the United States.

Good Beans
are
Scarce.

BEANS.

DWARF OR BUSH VARIETIES.

Our Beans
are
Choice.

Begin sowing the Dwarf or Bush varieties the first week in May, if the ground is in fit condition. For successive crops sowings may be made every two or three weeks, until the first of July. Sow thinly in drills from 2 to 3 inches deep, and from 18 inches to 2 feet apart. If the soil is rather poor, the former depth will suffice; if rich, the latter. One quart to 100 feet of drill; 2 bushels to the acre in drills.

Dwarf Wax Poddled Varieties.

Currie's Rust Proof Golden Wax.—Black seeds, golden yellow pods; fleshy, tender and very productive. Prepaid, Pkt., 5c; pt., 23c; qt., 40c. Not prepaid, pt., 15c; qt., 25c; pk., \$1.50; bu., \$5.50.

Golden Wax. Very early, round golden pods. Prepaid, pkt., 5c; pt., 23c; qt., 40c. Not prepaid, pt., 15c; qt., 25c; pk., \$1.50; bu. \$5.50.

Bismarck Black Wax. A grand bean, early and productive. Prepaid, pkt., 5c; pt., 25c; qt., 45c. Not prepaid, pt., 20c; qt., 30c; pk., \$1.75; bu., \$6.00.

Black Wax or Butter. Pods round and stringless, and of fine quality. Prepaid, pkt., 5c; pt., 25c; qt., 45c. Not prepaid, pt., 20c; qt., 30c; pk., \$1.75; bu., \$6.00.

White Wax. Flat yellow pods. Prepaid, pkt., 5c; pt., 23c; qt., 40c. Not prepaid, pt., 15c; qt., 25c; pk., \$1.50; bu., \$5.50.

Flageolet Red Wax. Flat, yellow, large and stringless pods. Prepaid, pkt., 5c; pt., 23c; qt., 40c. Not prepaid, pt., 15c; qt., 25c; pk., \$1.50; bu., \$5.50.

White Kidney Wax. Long, flat and pure white pods. Prepaid, pkt., 5c; pt., 23c; qt., 40c. Not prepaid, pt., 15c; qt., 25c; pk., \$1.50; bu., \$5.50.

Yosemite Mammoth Wax. The largest podded of all wax beans. Prepaid, pkt., 5c; pt., 35c; qt., 50c. Not prepaid, pt., 25c; qt., 35c; pk., \$2.00; bu., \$7.50.



Bismarck Black Wax Beans.

Green Poddled Varieties.

Best of All. Early and of good quality; round, green, fleshy pods. Prepaid, pkt., 5 cts.; pt., 23 cts.; qt., 40 cts. Not prepaid, pt., 15 cts.; qt., 25 cts.; peck, \$1.25; bu., \$4.50.

Round Early Yellow Six Weeks. Very prolific; pods neither flat nor round. Prepaid, pkt., 5 cts.; pt., 23 cts.; qt., 40 cts. Not prepaid, pt., 15 cts.; qt., 25 cts.; peck, \$1.25; bu., \$4.25.

Long Early Yellow Six Weeks. The leading market sort; flat green pods. Prepaid, pkt., 5 cts.; pt., 23 cts.; qt., 40 cts. Not prepaid, pt., 15 cts.; qt., 25 cts.; peck, \$1.25; bu., \$4.25.

Early China. Early and continues long in bearing. Prepaid, pkt., 5 cts.; pt., 23 cts.; qt., 40 cts. Not prepaid, pt., 15 cts.; qt., 25 cts.; peck, \$1.25; bu., \$4.50.

Refugee, Extra Early. Has all the superior qualities of the famous Refugee, and is two weeks earlier. Prepaid, pkt., 5 cts.; pt., 23 cts.; qt., 40 cts. Not prepaid, pt., 15 cts.; qt., 25 cts.; peck, \$1.25; bu., \$4.50.



Currie's Rust Proof Golden Wax.

Green Poddled Varieties.

Improved Red Valentine. A favorite with market gardeners. Prepaid, pkt., 5 cts.; pt., 23 cts.; qt., 40 cts. Not prepaid, pt., 15 cts.; qt., 25 cts.; peck, \$1.25; bu., \$4.50.

Early Mohawk. Long, flat straight pods, very hardy. Prepaid, pkt., 5 cts.; pt., 23 cts.; qt., 40 cts. Not prepaid, pt., 15 cts.; qt., 25 cts.; peck, \$1.25; bu., \$4.25.

Emperor William. Earliest and largest of snap beans; pods flat. Prepaid, pkt., 5 cts.; pt., 23 cts.; qt., 40 cts. Not prepaid, pt., 15 cts.; qt., 25 cts.; peck, \$1.25; bu., \$4.50.

Pride of Newton. Early and productive; light green, flat pods. Prepaid, pkt., 5 cts.; pt., 23 cts.; qt., 40 cts. Not prepaid, pt., 15 cts.; qt., 25 cts.; peck, \$1.40; bu., \$4.90.

White Marrow. Good, either as a string or as a shell bean. Prepaid, pkt., 5 cts.; pt., 23 cts.; qt., 40 cts. Not prepaid, pt., 15 cts.; qt., 25 cts.; peck, \$1.50; bu., \$5.25.



Early Mohawk Beans.

Dwarf Cranberry or Horticultural. Late and productive. Prepaid, pkt., 5c; pt., 23c; qt., 40c. Not prepaid, pt., 15c; qt., 25c; pk., \$1.40; bu. \$4.75.

Canada Wonder. Long pods; very productive. Seed when ripe, has a red color. Prepaid, pkt., 5c; pt., 23c; qt., 40c. Not prepaid, pt., 15c; qt., 25c; pk., \$1.25; bu. \$4.50.

Refugee, Late, or 1000 to 1. A main crop bean, productive and tender. Prepaid, pkt., 5c; pt., 23c; qt., 40c. Not prepaid, pt., 15c; qt., 25c; pk., \$1.25; bu., \$4.50.

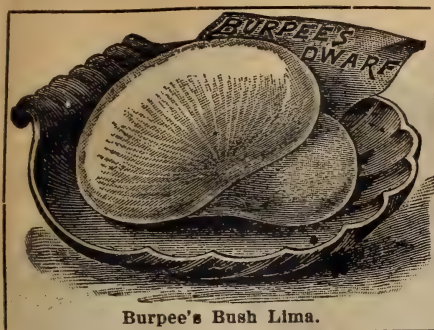
BEANS—English or Broad.

German—Garten-oder Sau-bohne. French—Fève de Marais.

Plant early in spring in rows about 4 feet apart, sow 4 inches apart in the row and 2 inches deep. As soon as the lower pods are set, pinch off the plant to insure well filled pods. Perfectly Hardy.

Broad Windsor. Prepaid, pkt., 5c; pt., 28c; qt., 45c. Not prepaid, pt., 20c; qt., 30c; pk., \$1.75; bu., \$6.25.

At prepaid prices we deliver seeds offered on this page free to any Post Office in the United States.



Burpee's Bush Lima.

BEANS—Continued.

BUSH LIMA VARIETIES.

Burpee's Bush Lima.—A dwarf or bush form of the true large Lima which is of great value. They are of perfect bush form, growing 18 to 20 inches high, of stout and erect growth, yet branching and vigorous. An immense yielder, each bush bearing from 50 to 200 handsome large pods, well filled with very large beans of luscious flavor. Does not always mature dry shelled beans in this latitude, but you are sure of a good crop of green ones. Prepaid, pkt., 5c, pt. 28c, qt. 45c. Not prepaid, pt. 20c, qt. 30c, peck \$2.00, bu. \$7.00.

Henderson's Bush Lima.—Earliest and most productive of all the bush Limas. Prepaid, pkt. 5c, pt. 28c, qt. 45c. Not prepaid, pt. 20c, qt. 30c, peck \$1.90, bu. \$6.75.

For Field Beans, see page 40.

RUNNING OR POLE BEANS.

Succeed best in sandy loam, which should be liberally enriched with manure. Form hills from three to four feet apart, plant five or six beans in a hill, about two inches deep, leaving space in the center for the pole. One quart makes from 100 to 200 hills, according to the size of beans. Eight to twelve quarts plant an acre.

POLE LIMA VARIETIES.

Extra Early Lima. Earliest of Pole Limas. Prepaid, pkt. 5c, pt. 28c, qt. 45c. Not prepaid, pt. 20c, qt. 30c, peck, \$2.00, bu. \$7.00.

Large White Lima. Ripens 90 days after germination. Prepaid, pkt. 5c, pt. 28c, qt. 45c. Not prepaid, pt. 20c, qt. 30c, peck, \$1.75; bu. \$6.25.

King of the Garden Lima. Largest of the Limas in pod and bean. Prepaid, pkt. 5c, pt. 28c, qt. 45c. Not prepaid, pt. 20c, qt. 30c, peck \$1.90, bu. \$6.75.

Small White or Sieva Lima. Small beans but very productive. Prepaid, pkt. 5c, pt. 28c, qt. 45c. Not prepaid, pt. 20c, qt. 30c, peck \$1.85, bu. \$6.50.

POLE WAX PODDED VARIETIES.

Black German Wax Pole. Well known yellow podded variety. Prepaid, pkt. 5c, pt. 28c, qt. 45c. Not prepaid, pt. 20c, qt. 30c, peck \$1.90, bu. \$6.75.

Mont d'Or or Golden Cluster. Ripens ten days later than the Bush Golden Wax. Prepaid, pkt. 5c, pt. 28c, qt. 45c. Not prepaid, pt. 20c, qt. 30c, peck \$2.00, bu. \$7.00.

Golden Andalusia. Beans white and round, productive. Prepaid, pkt. 5c, pt. 28c, qt. 45c. Not prepaid, pt. 20c, qt. 30c, peck \$1.75, bu. \$6.50.



Pole Beans.

POLE GREEN PODDED VARIETIES.

Horticultural or Cranberry. Can be used as a shell or snap bean. Prepaid, pkt. 5c, pt. 28c, qt. 45c. Not prepaid, pt. 20c, qt. 30c, peck \$1.50, bu. \$5.50.

Dutch Caseknife. Long flat green pods, and can be used as a shell or snap bean. Prepaid, pkt. 5c, pt. 28c, qt. 45c. Not prepaid, pt. 20c, qt. 30c, peck \$1.75, bu. \$6.00.

Lazy Wife. Late beans, white, pods long and green. Prepaid, pkt. 5c, pt. 28c, qt. 45c. Not prepaid, pt. 20c, qt. 30c, peck \$1.75, bu. \$6.75.

Scarlet Runner. Ornamental as well as edible. Prepaid, pkt. 5c, pt. 28c, qt. 45c. Not prepaid, pt. 20c, qt. 30c, peck \$1.75, bu. \$6.50.

White Dutch Runner. Same as Scarlet Runner, excepting color. Prepaid, pkt. 5c, pt. 28c, qt. 45c. Not prepaid, pt. 20c, qt. 30c, peck \$1.75, bu. \$6.50.

Kentucky Wonder, or Old Homestead. A very early green podded variety, entirely stringless. Prepaid, pkt. 5c, pt. 28c, qt. 45c. Not prepaid, pt. 20c, qt. 30c, peck \$2.00, bu. \$7.50.

BROCCOLI.

German—Spargel Kohl. French—Chou Brocoli. Spanish—Brocoli.

Sow thinly in seed beds about the middle of Spring, and transplant and cultivate the same as cabbage. Produces heads very nearly like Cauliflower, but more hardy.

Purple Cape. Best adapted to our climate. Pkt. 5c, oz. 30c, ¼ lb. \$1.00, 1 lb. \$3.50.

BRUSSELS SPROUTS.

German—Sprossen Kohl. French—Chou de Bruxelles.

Spanish—Bretones de Bruselas.

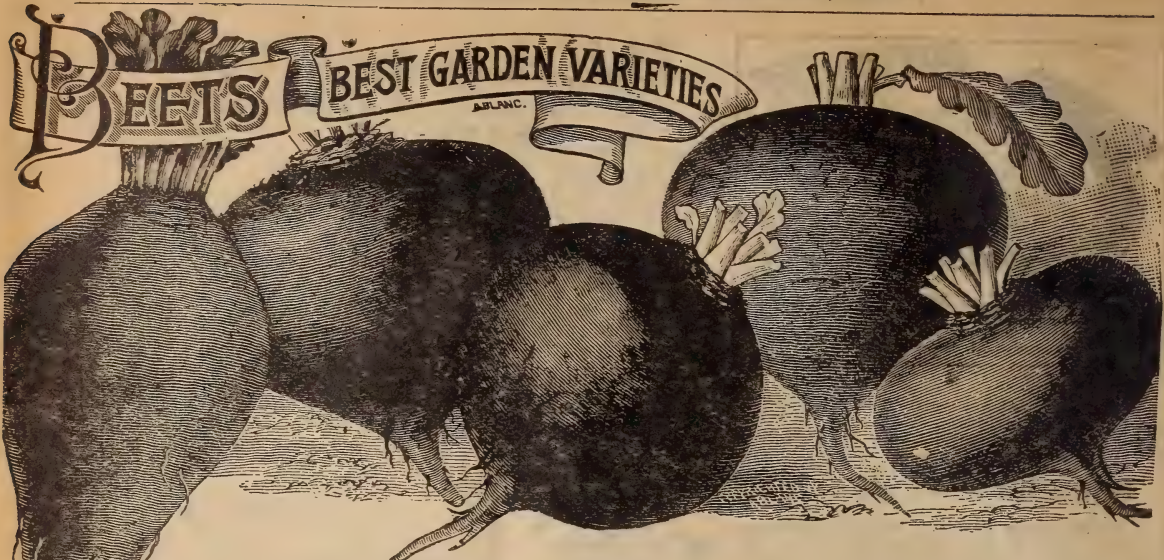
This is one of the most delicious of all vegetables, and of easy growth, but is not so well known in America as it deserves. Produces on the stem small heads resembling miniature cabbages. The sprouts are used as greens and become tender when touched by the frost. Sow in May and manage as winter cabbage. In the fall the leaves should be broken down so that the little cabbages will have more room to grow.

Dwarf Improved.—Compact heads of fine quality. Pkt. 5c, oz. 10c, ¼ lb. 35c, 1 lb. \$1.25.

At prepaid prices we deliver all Seeds offered on this page free to any Post Office in the United States.



Brussels Sprouts.

Half
Long
Blood.

Early Blood Turnip.

Eclipse.

Dewings.

Egyptian.

German—Salatrube. French—Betterave. Spanish—Remolacha.

Sow as early in the spring as the ground can be worked (4 to 6 lbs. to the acre), and every two weeks after for a succession, up to the first week of July. For general crop, sow about the middle of May. The soil should be light, sandy loam, well enriched with stable manure, and plowed and harrowed until very fine. Sow in drills 1 foot to 15 inches apart, and when well up, thin from 4 to 6 inches. The young Beets pulled out of the row are excellent, used as Spinach.

Extra Early Egyptian Turnip. The earliest, and excellent in quality. Deep crimson in color. Pkt., 3 cts.; oz., 10 cts.; ¼ lb., 20 cts.; 1 lb., 55 cts.

Eclipse. A new and valuable variety, of fine quality, coming in almost as early as Egyptian. It is highly esteemed for its richness of color. Pkt., 3 cts.; oz., 10 cts.; 1 lb., 55 cts.

Edmond's Early. An early variety of superior quality, grows very uniform in size, with a single taproot, color deep blood red. Pkt., 3 cts.; oz., 10 cts.; ¼ lb., 20 cts.; 1 lb., 55 cts.

Dewings Improved Blood Turnip. Very desirable for marketing; of fine form and color, very early. Pkt., 3 cts.; oz., 10 cts.; ¼ lb., 15 cts.; 1 lb., 50 cts.

Early Blood Turnip. A favorite early variety. Pkt., 3 cts.; oz., 10 cts.; ¼ lb., 15 cts.; 1 lb., 50 cts.

Half Long Blood. An entirely distinct variety, growing about half as long as the Long Blood, but thicker than that sort. The color is dark blood red, and the flesh is delightfully crisp and tender at all stages of its growth. It comes in soon after the early Turnip sorts, and never becomes coarse or woody, even if left in the ground until late in the fall. We consider it the best Beet for winter use. Pkt., 3 cts.; oz., 10 cts.; ¼ lb., 20 cts.; 1 lb., 60 cts.

Long Smooth Blood Red. An improvement on the common Long Blood. A valuable late sort. Pkt., 3 cts.; oz., 10 cts.; ¼ lb., 15 cts.; 1 lb., 50 cts.

Swiss Chard, Silver or Sea-Kale Beet. For the leaves alone this variety is grown. These with the mid-rib removed, are cooked and used as Asparagus. Pkt., 3 cts.; oz., 10 cts.; ¼ lb., 15 cts.; 1 lb., 50 cts.

For Sugar Beet and Mangel Wurzel, see Farm Seed Pages 38 and 39.

CAULIFLOWER.

German—Blumenkohl. French—Choufleur. Spanish—Coliflor.

Sow Seed in the hot-bed in January or February and transplant the plants two or three inches apart in boxes, or in the soil of another hot-bed, until such time as they are safe to be planted in the open ground, which in this latitude is usually from the 15th of March to the 10th of April. Set the plants 2 feet by 15 inches apart. If properly hardened off, they are seldom injured by being planted out too early. When heading, tie the outside leaves loosely over the head to protect it from the sun. Water plentifully in dry weather. One ounce of seed gives 1,500 to 2,000 plants.

Wernich's Earliest Snowball. The Sort for Market Gardeners to Use. Wernich's Early Snowball Cauliflower is of dwarf, compact habit. Almost every plant will make a large head of pure white color, and of the best quality. Not only is this the best early variety, but it is superior to all others for fal use. Pkt., 25 cts.; ½ oz., \$1.35; oz., \$2.50; ¼ lb., \$7.50.

Henderson's Early Snowball. This very superior strain is noted for producing early plants of dwarf habit, short, compact growth, and uniform shape. It is extremely hardy and one of the surest to make a solid head. Pkt., 25 cts.; ½ oz., \$1.25; oz., \$2.25; ¼ lb., \$7.00.

Wernich's Selected Earliest Dwarf Erfurt. The earliest of the earlies. Very dwarf, small leaved; can be planted twenty inches apart and forced. Makes a fine firm head, of snowy whiteness tender and of delightful flavor. Pkt., 20 cts.; ½ oz., \$1.35; oz., \$2.50; ¼ lb., \$8.00.

Early London. Where extreme earliness is not essential this will be found one of the best. Pkt., 5 cts.; ½ oz., 35 cts.; oz., 50 cts.; ¼ lb., \$1.75; 1 lb., \$6.50.

Autumn Giant. A late variety, vigorous habit. Pkt., 5 cts.; ½ oz., 30 cts.; oz., 50 cts.; ¼ lb., \$1.75; 1 lb., \$6.75.

We deliver all Seeds offered on this page free at prices quoted to any Postoffice in the United States.



Wernich's Earliest Snowball.



Main Crop Varieties.

ALL HEAD EARLY.

he most profitable Early Cabbage for market gardeners. The best all-the-year round Cabbage for the home garden.

Heads flat, deep, and solid; firm and tender; valuable also for late; seeds sown in July and set out in August will make fine heads. Largely planted by market gardeners. Nearly 10,000 can be grown on an acre, and nearly every one will produce a head. Pkt., 5 cts.; oz., 25 cts.; $\frac{1}{4}$ lb., 75 cts.; lb., \$2.75.

Early York. An old favorite. Heads small, heart shaped and firm. Almost certain to head and is a good shipping sort. Pkt., 5 cts.; oz., 10 cts.; $\frac{1}{4}$ lb., 40 cts.; lb., \$1.50.

Early Winningstadt. Heads large, conical; leaves bright, glossy green. Valuable not only for early use but for winter cabbage. Pkt., 5 cts.; oz., 10 cts.; $\frac{1}{4}$ lb., 35 cts.; lb., \$1.25.

Early Flat Dutch. A standard second early variety. Pkt., 5 cts.; oz., 15 cts.; $\frac{1}{4}$ lb., 40 cts.; lb., \$1.50.

Fotter's Brunswick. Short stem. We have a superior strain of this seed which brings large, flat, solid heads of excellent quality. Stem very short. A sure header and good shipper. Pkt., 5 cts.; oz., 15 cts.; $\frac{1}{4}$ lb., 40 cts.; lb., \$1.50.

Early Summer. Comes in about ten days later than Wakefield, having much larger heads. Unexcelled for market garden and good for home use. Pkt., 5 cts.; oz., 20 cts.; $\frac{1}{4}$ lb., 60 cts.; lb., \$2.00.

Jacob Giefer, Iowa. March 1st, 1901. Wernich's Cabbage Seed cannot be beat.

SURE HEAD.

This famous Cabbage is most appropriately named for it can be relied upon with certainty to head even under unfavorable circumstances. The heads are large, very hard, firm, fine in texture, and sweet flavored. It is a late variety, keeps well, is good for shipping and is a favorite sort with market gardeners and for home use. Pkt., 5 cts.; oz., 20 cts.; $\frac{1}{4}$ lb., 60 cts.; lb., \$2.00.

J. M. Cromwell. March 24th, '02. I want Surehead and Luxemburg Cabbage Seed, same as last year. Best Seed I ever had.

At prices quoted we deliver all Seeds offered on this page free to any Post Office in the United States.

CABBAGE.

German—Kopf Kohl. French—Choux Poermes. Spanish—Repollo.

For early use, sow seeds of the early kinds in the hot-beds or in a box in the house the last of January or early in February, and transplant them in the open ground in April, in rows two feet apart, and eighteen inches between the plants in the row; or sow a bed of seed outside as soon as the soil can be worked, if you do not care for real early cabbage. These may be transplanted in about four weeks. For second early cabbage, sow in April and transplant in May. For late cabbage, sow in May and transplant in July, in rows three feet apart and two feet between the plants in the row. One ounce of seed produces about 2,500 plants. Four ounces grow enough plants to set an acre.

Early Varieties.

Wernich's Three "E" or Extra Early Eureka.

See Novelties, Page 2.

WERNICH'S EARLIEST OF ALL.

Heads the list as the earliest Cabbage in cultivation, maturing in from 80 to 85 days from sowing the seed. It has but a few outer leaves, almost every plant forms a small conical head of a yellowish green color. In quality it is the best. Desirable for early market or home use. Pkt., 5 cts.; oz., 15 cts.; $\frac{1}{4}$ lb., 40 cts.; lb., 15 cts.

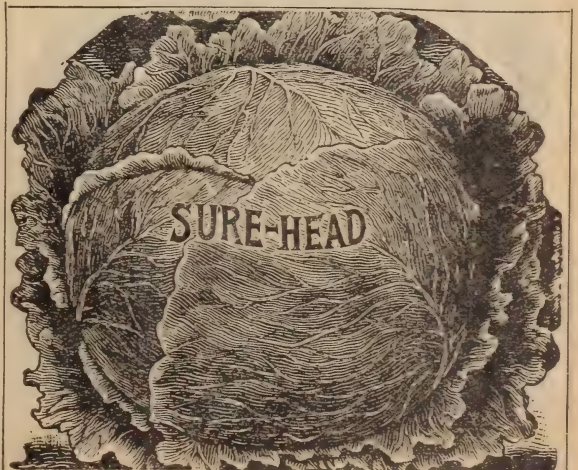


Early Winningstadt.

Early Jersey Wakefield. Select Stock. Long recognized as the best earliest marketable cabbage. Medium in size, in shape pyramidal with a pointed peak. Hardy plants can be wintered in cold frames. Is a reliable, certain header and one of the most profitable cabbages for the market gardener. Our strain of seed is of superior quality. Pkt., 5 cts.; oz., 25 cts.; $\frac{1}{4}$ lb., 75 cts.; lb., \$2.50.

Eclipse. One of the earliest of the large cabbages. Heads very uniform in size with very few leaves, remarkably solid and very tender. Stem, very short; color, dark green. Pkt., 5 cts.; oz., 25 cts.; $\frac{1}{4}$ lb., 75 cts.; lb., \$2.50.

Early Market. A favorite with Milwaukee gardeners. A desirable variety of excellent quality; tender, and very mild flavor when cooked. Pkt., 5 cts.; oz., 25 cts.; $\frac{1}{4}$ lb., 75 cts.; lb., \$2.50.



CABBAGE!

LATE VARIETIES.

WERNICH'S HOLLAND OR DANISH BALLHEAD.

The best Cabbage for Early Spring Sales.

This entirely distinct variety comes from Denmark. It has been cultivated in America for five or six years and has proved a very desirable winter cabbage both on account of its uniformity in heading and from its extremely hard, solid head, which gives it superior keeping qualities. The heads are nearly round, almost as deep as they are wide. Color, blue green. The hard heads keep excellently when buried and present an attractive appearance when offered in the spring market. It has been thoroughly tested and may be relied upon to meet every claim made for it. Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., \$1.00; lb., \$3.75.

THE LUPTON.

A New Winter Variety.

This variety originated with one of the largest Cabbage seed growers of Long Island, whose name it bears, and we recommend it for the following points: The heads are particularly large in proportion to the plant, which is a strong grower, but does not spread out much. The stalk is rather short and color is a rich green; it is one of the best keepers and comes out in the Spring bright and fresh. It is more uniform and heads better than other late varieties. Pkt., 5cts.; oz., 20 cts.; $\frac{1}{4}$ lb., 60 cts.; 1 lb., \$2.00.

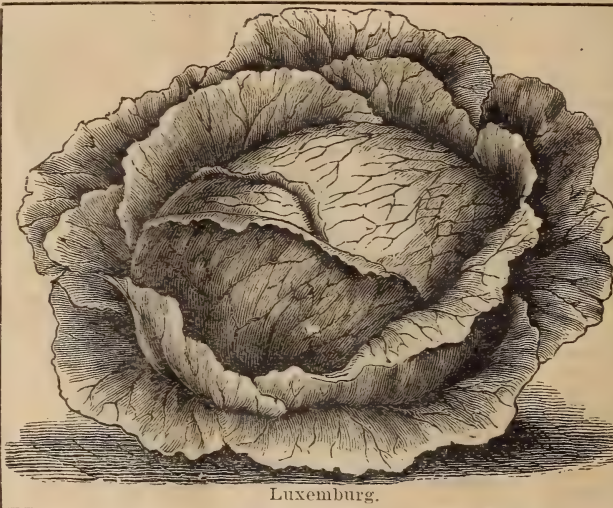


Large Late Drumhead.

Excellent winter variety with a broad, flat or round head. Very compact and solid short stump, tender and good flavored, an excellent keeper. Pkt., 5 cts.; oz., 15 cts.; $\frac{1}{4}$ lb., 50 cts.; lb., \$1.75.

Selected Premium Flat Dutch.

A low growing variety, heads large, bluish green, round, solid broad and flat on the top; an excellent fall and winter variety, and a good keeper. It is a sure header. Our stock has been grown from carefully selected heads and we consider it superior to any other strain of Flat Dutch Cabbage on the market. Large pkt., 5 cts.; oz., 15 cts.; $\frac{1}{4}$ lb., 50 cts.; lb., \$1.75.



Luxemburg.

This makes a very hard head of good size, extraordinary weight, and is remarkable for its keeping qualities. It is a grand sort for late spring sales, for after many kinds are gone it retains its bright green color. As a shipper it ranks with the best. As a yielder it cannot be beat. Picture shows view of top of head. One of the most profitable to grow, gardeners invariably realize high prices for this variety. Pkt., 10 cts.; oz., 25 cts.; $\frac{1}{4}$ lb., 90 cts.; lb., \$2.75.

All Seasons.

Much grown by market gardeners and is also an excellent variety for home use. Remarkable for its ability to stand hot sun and dry weather. Makes solid, hard heads of large size. It is both an early and late variety, and is most appropriately named. Pkt., 5 cts.; oz., 20 cts.; $\frac{1}{4}$ lb., 60 cts.; lb., \$2.00.

RED LEAVED CABBAGES.

Early Blood-Red Erfurt. Earlier and smaller than the large red; valuable for pickling. Pkt., 5 cts.; oz., 15 cts.; $\frac{1}{4}$ lb., 50 cts.; lb., \$1.75.

Large Red Dutch. By far the best, largest and surest heading red cabbage. Color, deep rich red. Many successful market gardeners choose this for their entire crop of red cabbage, pronouncing it the best of all. Pkt., 5 cts.; oz., 15 cts.; $\frac{1}{4}$ lb., 50 cts.; lb., \$1.75.

Mammoth Rock Red. A splendid large growing Red Cabbage; heads have frequently been grown to 12 lbs. each. Color deep red through to center of head. An excellent sort, and a sure header. Pkt., 10 cts.; oz., 25 cts.; $\frac{1}{4}$ lb., 75 cts.; 1 lb., \$2.50.

SAVOY CABBAGES.

American Drumhead Savoy. The best of its class for home use or market. Heads large, solid and compact. Has rich, sweet flavor of the cauliflower when cooked. Pkt., 5 cts.; oz., 20 cts.; $\frac{1}{4}$ lb., 50 cts.; lb., \$1.75.

Early Dwarf Ulm Savoy. Heads medium size, round and solid; leaves deep green and finely wrinkled. Pkt., 5 cts.; oz., 20 cts.; $\frac{1}{4}$ lb., 50 cts.; lb., \$1.75.





German—Möhren. French—Carotte. Spanish—Zanahoria.

The Carrot, like other root crops, flourishes best in a well enriched sandy soil, deeply tilled, and if plowed the fall before, all the better. Should be sown in early spring in drills from 15 to 18 inches apart, finally thinning plants to about three or four inches apart in the drill; keep clean by frequent hoeing and weeding. If neglected, the young plants are easily smothered, and your crop is lost. The seed is slow to germinate, and if sown early or on moist soil, half an inch is deep enough to cover the seed. One ounce sows 150 feet of row. Four pounds will sow an acre.

Wernich's Improved Danvers. For description see Novelties Page 2.

Early French Forcing. Tender and fine for early and late crops and frames. Pkt., 5 cts.; oz., 10 cts.; $\frac{1}{4}$ lb., 25 cts.; 1 lb., 85 cts.

Early Scarlet Horn. Very thick roots and short in form. Pkt., 3 cts.; oz., 10 cts.; $\frac{1}{4}$ lb., 25 cts.; 1 lb., 75 cts.

Half-long Nantes. Stump-rooted. A leading market sort. Pkt., 5 cts.; oz., 10 cts.; $\frac{1}{4}$ lb., 20 cts.; 1 lb., 75c.

Half-long Danvers. Thick, of good quality and very productive. Pkt., 3 cts.; oz., 10c; $\frac{1}{4}$ lb., 25c; 1 lb., 85c.

Chantenay. Resembles the Half-long in appearance, but larger. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; 1 lb., 85c.

Oxheart or Guerande. Short thick roots, sometimes measuring more in width than in length. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; 1 lb., 75c.

Long Orange, Improved. Best for stock-feeding. Pkt., 3c; oz., 10c; $\frac{1}{4}$ lb., 20c; 1 lb., 65c.

Long White Belgian. Very large and mostly used for stock. Pkt., 3c; oz., 10c; $\frac{1}{4}$ lb., 20c; 1 lb., 55c.

Mastodon. Largest in size, largest in yield. Often measures 15 to 20 inches in circumference. Not recommended for table use but is an excellent Carrot for feeding stock. Pkt., 3c; oz., 10c; $\frac{1}{4}$ lb., 30c; 1 lb., 90c.

CELERY.

German—Sellerie. French—Celeri. Spanish—Apio.

Little of the seed is now sown in hot-beds, but is sown in a cold frame, or even out in open air, early in April, and in June and July is transplanted where it is intended to mature. The young plants, before transplanting, should be clipped down partially two or three times to promote stubby growth. On the ground, previously thoroughly enriched and cultivated, lay out lines three feet apart on the surface, not in trenches, as used to be planted. Set the plants in these rows about six inches apart. Cultivate frequently until the middle of August.

White Plume. Unlike most varieties, this one does not require to be earthen up, but if only loosely tied, a few handfuls of earth brought close together, all the inner leaves or thin stalks will turn white. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 60c; 1 lb., \$1.75.

Pink Plume. Resembles the White Plume, excepting that the stalks are tinged with pink. Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., 75c; 1 lb., \$2.50.

Golden Self-Blanching. Like the White Plume, this Celery requires very little earthing up, and in many other respects it is similar to that favorite sort, differing, however, in color, which is yellowish, the heart being large and solid and of a golden hue. Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., 75c; 1 lb., \$2.50.

Giant Pascal. A selection from the famous Golden Self-Blanching. It produces broad and thick, solid stalks of handsome appearance, which are entirely stringless, crisp and tender, and of a delicious, nutty flavor, and is absolutely free from any bitter taste. It requires but little earthing up, bleaches rapidly. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 40c; 1 lb., \$1.50.



Golden Self-Blanching Celery.

New Rose. Very crisp and of good flavor. Pkt., 5 cts.; oz., 25 cts.; $\frac{1}{4}$ lb., 60 cts.; 1 lb., \$2.00.

Crawford's Half Dwarf. Of vigorous growth and of excellent flavor. Pkt., 5 cts.; oz., 20 cts.; $\frac{1}{4}$ lb., 50 cts.; 1 lb., \$1.50.

CELERIAC.

or Turnip Rooted Celery.

German—Knollen-Sellerie. French—Celeriac-Rave.

Spanish—Apio-Napo.

A variety of celery having tursip-shaped roots, which, when cooked, sliced and used with vinegar, makes an excellent salad. It is more hardy and may be treated same as Celery.

Large Erfurt. Pkt., 5 cts.; oz., 15 cts.; $\frac{1}{4}$ lb., 40 cts.; 1 lb., \$1.25.

Large Smooth Prague, Extra Select. In our extra select stock we claim to have got the finest strain of Root Celery it is possible to produce. The bulbs are globe-shaped, large, smooth, and are entirely free from side roots. Pkt., 5 cts.; oz., 25 cts.; $\frac{1}{4}$ lb., 75 cts.; 1 lb., \$2.50.



Giant Prague Celeriac.

SWEET CORN.

German—Welschkorn. French—Mais. Spanish—Maiz.

For Field Corn, see pages 30, 31 and 32. Farm Seeds Department.

Sow in rows four and a half feet apart, or plant in hills, if in rich soil, a distance of about four feet each way. If the soil is poor and the variety dwarf, the distance apart may be lessened. Begin planting in May and continue until the last week in July. One quart to 200 hills; 8 to 10 quarts to the acre, in hills.

First of All. Corn is ready for the table from three days to a week earlier than the Cory, making it very desirable not only for family gardens, but extremely valuable to grow for market, where the earliest corn always brings by far the highest prices. The ears are of medium size, well filled with large grains to the tip. Many of the ears contain ten or twelve rows. In habit of growth it is rather dwarfer than the Cory, although similar in appearance, but superior in quality, tender and sweet. Prepaid, pkt., 5c; pt., 20c; qt., 30c; not prepaid, pt., 15c; qt., 20c; peck, \$1.00; bu., \$3.50.



Extra Early Adams. Very early, but more of the quality of field than of sweet corn. It is, however, the standard extra early variety in the south, and can be depended upon to give a crop there when most other sorts fail. Prepaid, pkt., 5c; pt., 15c; qt., 30c; not prepaid, pt., 10c; qt., 15c; peck, 75c; bu., \$2.50.

Early Cory (Red Cob). Recognized throughout the United States as the standard early Sweet Corn. Ears eight-rowed, with red cob and broad light pink grains. A profitable sort to grow for early market. Prepaid, pkt., 5c; pt., 15c; qt., 25c; not prepaid, pt., 10c; qt., 15c; peck, 80c; bu., \$3.00.

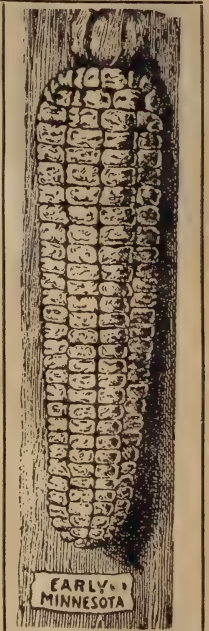
Early Minnesota. An old but most excellent variety both for market and home use. Ears fair size and uniform, eight-rowed, kernels tender and sweet; color white. Nearly as early as Cory. Prepaid, pkt., 5c; pt., 20c; qt., 30c; not prepaid, pt., 15c; qt., 20c; peck, 85c; bu., \$3.00.

Perry's Hybrid. Nearly as early as Minnesota, with large ears, twelve to fourteen rowed, averaging two ears to a stalk. Kernels large, cooking white and tender. Prepaid, pkt., 5c; pt., 20c; qt., 30c; not prepaid, pt., 15c; qt., 20c; peck, 85c; bu., \$3.00.

Chicago Market. It has many good points to commend it, chief among which are earliness, large size, fine appearance (being well formed), great productiveness, two or three ears on a stalk, and superior table quality. It is twelve rowed, cob white, a stout, stocky grower, and is equally valuable for the home gardener and the trucker. Prepaid, pkt., 5c; pt., 20c; qt., 30c; not prepaid, pt., 15c; qt., 20c; peck, 85c; bu., \$3.00.

Concord. Of strong growth, ears large and well filled; medium late. Prepaid, pkt., 5c; pt., 15c; qt., 25c; not prepaid, pt., 10c; qt., 15c; peck, 85c; bu., \$3.00.

Country Gentleman. An excellent Corn for family use. The ears are a good size with a small cob, and very deep, clear white kernels, tender and sweet. It is very productive, many of the stalks bearing three or four ears. Prepaid, pkt., 5c; pt., 20c; qt., 30c; not prepaid, pt., 15c; qt., 20c; peck, 85c; bu., \$3.00.



Black Mexican. Although the ripe grain is black or blue-black in color, the corn, when in condition for table cooks almost white. It is very sweet and tender. Once tried in the family garden, it is sure to be continued. Prepaid, pkt., 5c; pt., 20c; qt., 30c; not prepaid, pt., 15c; qt., 20c; peck, 85c; bu., \$3.00.

Stowell's Evergreen. A favorite with gardeners and canners. Planted at the same time with earlier kinds it will keep the table supplied until October. Prepaid, pkt., 5c; pt., 15c; qt., 25c; not prepaid, pt., 10c; qt., 15c; peck, 85c; bu., \$3.00.

Mammoth Sugar. Ripens a little later than the Evergreen. Large ears. Kernels flat. Largely used by canners and market gardeners. Prepaid, pkt., 5c; pt., 20c; qt., 30c; not prepaid, pt., 15c; qt., 20c; peck, 85c; bu., \$3.00.

CHERVIL.

French—Cerfeuil. German—Gartenkerbel.

Curled. The young leaves are used in soups and salads. Sow in May in drills half an inch deep. 1 oz. to 100 feet of drill 1 foot apart. Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c.

CHICORY.

German—Cichorienwurz. French—Cicore Sauvage. Spanish—Achicoria.

1 ounce for 100 feet of drill.

The roots dug in the fall, dried, cut into thin slices, roasted and ground, are used largely as a substitute for Coffee. Seed should be sown thinly in shallow drills early in the spring. When well started thin out to stand two or three inches apart and give good cultivation, so that the roots may grow as large as possible.

Large-rooted or Coffee. The standard. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 90c.

CHIVES.

The tops appear very early in the spring and can be shorn throughout the season. Every garden should contain a few clumps. By some considered indispensable for use in omelets. Pkt., 5c; ¼ oz., 25c; oz., 40c.



Chicory.

POP CORN.

Queen's Golden Pop Corn. The stalks grow six feet high and the large ears are produced in abundance. Its quality and handsome appearance when popped are very noticeable. It pops perfectly white, and a single kernel will expand to a diameter of nearly one inch. Prepaid, pkt., 5c; pt., 18c; qt., 35c; not prepaid, pt., 10c; qt., 20c; peck, 80c; bu., \$2.75.

Silver Lace Pop Corn. It suckers so that a single kernel will produce 3 or 4 stalks. The ears are very handsome, 5 to 6 in. in length, with 16 rows well filled out to the end with smooth round, metallic white grains. Prepaid, pkt., 5c; pt., 18c; qt., 35c; not prepaid, pt., 10c; qt., 20c; peck, 80c; bu., \$2.75.

CORN SALAD OR FETICUS.

German—Stecksalat. French—Mache. Spanish—Macha o Valerianilla.

1 ounce to 35 feet of row.

It is used during the winter and early spring as a substitute for Lettuce. Seeds may be sown in August or September, in shallow drills, and protected in cold sections by leaves or straw during the winter. Cultivate as Lettuce.

Large Leaved. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c.

CUCUMBERS.

German—Gurke. French—Concombre. Spanish—Cohombro.

Plants in hills four feet apart, in well prepared, warm, rich loamy soil. Mix a shovelful of well-rotted manure in each hill. The fruit should be picked when large enough, whether they are wanted or not, as it destroys the vitality of the vine if left to ripen. One ounce to 50 hills; two pounds to the acre, in hills.

Cumberland. See Novelties, page . .

Cool and Crisp. As a cucumber for slicing, we know of none better. Long and slim, pointed at the ends, very dark green, almost black. One of the earliest. Pkt., 5 cts.; oz., 20 cts.; ¼ lb., 60 cts.; 1 lb., \$2.00.

Green Prolific. Great bearer of medium sized fruit that is excellent for slicing as well as for pickling. Pkt., 5 cts.; oz., 20 cts.; ¼ lb., 50 cts.; 1 lb., \$1.75.

Boston Pickle. A favorite eastern variety of fine quality. Pkt., 5 cts.; oz., 20 cts.; ¼ lb., 50 cts.; 1 lb., \$1.75.

Early Short Green. Productive and good for pickling. Pkt., 3 cts.; oz., 20 cts.; ¼ lb., 50 cts.; 1 lb., 50 cts.

Everbearing. Very small, early and productive. A good pickler. Pkt., 5 cts.; oz., 20 cts.; ¼ lb., 50 cts.; 1 lb., \$1.60.

Improved Long Green. Long and crisp; good for pickling. Pkt., 5 cts.; oz., 20 cts.; ¼ lb., 55 cts.; 1 lb., \$1.85.

Improved White Spine. An early sort of fine shape and quality. Pkt., 5 cts.; oz., 20 cts.; ¼ lb., 50 cts.; 1 lb., \$1.60.

West India Gherkin. The smallest cucumber known and exclusively used for pickling. Pkt., 5 cts.; oz., 20 cts.; ¼ lb., 50 cts.; 1 lb., \$1.75.

CHICAGO PICKLING.



Wernich's Chicago Pickling.

It is undoubtedly the best cucumber for pickles, and is used almost exclusively by our pickle factories. The fruit is of medium length, pointed at both ends, with large and prominent spines; color deep green; begins to set its fruit when the vines are quite young. Pkt., 5 cts.; oz., 20 cts.; ¼ lb., 50 cts.; 1 lb., \$1.65 cts.

Giant Pera. Flesh clear white and very crisp. Pkt., 5 cts.; oz., 20 cts.; ¼ lb., 60 cts.; 1 lb., \$2.00.

Japanese Climbing. Good for frames or open ground. Can also be trailed and makes nice shade where so trailed on verandas. Pkt., 5 cts.; oz., 20 cts.; ¼ lb., 50 cts.

New Goliath. Grows enormously large, from 20 to 25 inches and larger. Grows equally well in frame or outdoors. Everyone should try them. Pkt., 5 cts.; oz., 20 cts.; ¼ lb., 50 cts.

African Horned. A climbing variety. One hill will produce enough vines to cover a space 10 feet square. The fruit when ripe is 4 inches in length, is thickly studded with prickly points. Fruit when very young makes good pickles. Pkt., 10 cts.; 3 for 25 cts.

English Cucumbers for Frames.

The following are for growing in hot-beds or houses particularly constructed for forcing, so that a supply can be furnished during the winter months, at which time the prices are very remunerative. Sow seeds in October, November or December, according to the time they are wanted.

Model Forcing. Most excellent sort. Pkt., 25 cts.
Telegraph Forcing. Extensively grown. Pkt., 25 cts.

CRESS OR PEPPER GRASS.

German—Kresse. French—Cresson. Spanish—Mastuerzo.

A well-known pungent salad; can be used alone or with lettuce. Requires to be sown thickly (covering very lightly) at frequent intervals, to keep up a succession, as it soon runs to seed.

Curled Garden. Very fine, may be cut two or three times. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 15 cts.; 1 lb., 45 cts.

Upland Cress. It is a hardy perennial, stays green nearly the whole year, and is ready for use before any other salad in the spring. Sow in April in rows one foot apart. Pkt., 10 cts.; oz., \$1.00; ¼ lb., \$3.50; 1 lb., \$12.00.

Water Cress. It is easily grown by planting along margins of ponds and streams, where it increases both by spreading of the roots and by seeding. Pkt., 5 cts.; oz., 30 cts.; ¼ lb., \$1.00; 1 lb., \$3.50.

EGG PLANT.

German—Eierpflanze. French—Aubergine. Spanish—Berengena.

Sow in a hot-bed the first week in March, and plant out in June, about 2½ feet apart. For a small garden a few seeds may be raised in common flower-pots in the house. One ounce to 150 feet of drill.

Improved New York Spineless. Very large and smooth, fine dark color. Pkt., 5 cts.; oz., 35 cts.; ¼ lb., \$1.00; 1 lb., \$3.50.

Purple Perfection Thornless. A favorite sort amongst market Gardeners. Very prolific. Pkt., 5 cts.; oz., 30 cts.; ¼ lb., 75 cts.; 1 lb., \$2.75.

ENDIVE.

German—Endivien. French—Chicoree Endive. Spanish—Escarola or Endivia.

Sow in June, July and August; cover lightly; when up, thin to eight inches apart, and water well after if dry. When the leaves are six or eight inches long, bleach by gathering in the hand and tying together near the top with yarn or bast. This must be done when quite dry, or they will rot. At the approach of winter, take up carefully, a ball of earth to each plant and place close together in frame or cellar for use. They must be kept dry, and have plenty of air, or they will rot.

Green Curled. Standard variety for fall and winter crop. Pkt., 5 cts.; oz., 15 cts.; ¼ lb., 35 cts.; 1 lb., \$1.25.

Broadleaved. Sweet. For fall or winter. Pkt., 5 cts.; oz., 15 cts.; ¼ lb., 35 cts.; 1 lb., \$1.25.

GARLIC.

German—Knoblauch. French—Ail. Spanish—Ajo. Esteemed by many for flavoring soups and stews.

Bulbs. Per bulb, 5 cts.; ½ lb., 20 cts.; 1 lb., 35 cts.

KALE.

German—Blaetter Kohl. French—Chou Vert. Spanish—Breton.

Sow in prepared beds, middle of April to beginning of May, and transplant beginning of June same as Cabbage. All the varieties are very hardy, and are best when touched by frost. 1 oz. to 1,500 plants.

Half Dwarf Green Curled. Very dwarf and of spreading habit. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 25 cts.; 1 lb., 90 cts.

Tall Brown Scotch. Very hardy. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 25 cts.; 1 lb., 75 cts.

Siberian or Winter. Dwarf, hardy and green curled. Pkt., 3 cts.; oz., 10 cts.; ¼ lb., 20 cts.; 1 lb., 70 cts.

We deliver all seeds offered on this page free at prices quoted to any Post Office in the United States.



LETTUCE.

German—Lattich-Salat. French—Laitue. Spanish—Lechuga.

If wanted for early spring use, sow in a seed bed in September or October, and protect through the winter with cold frames, or in the South with leaves or litter, or sow in a hot-bed in early spring; as soon as the ground can be well worked, transplant in good, rich ground, to rows eighteen inches apart, and eight to ten inches in the rows. For a later supply, plant every two weeks from the middle of April until July, choosing varieties according to their heat resistance. If sown outside, to be cut young, sow thickly in drills or broadcast; but if fine, strong heads are desired, sow in drills one-fourth inch deep, eighteen inches apart, and thin, rather than transplant, to twelve inches apart in rows. One ounce of seed makes 2,000 plants.

Grand Rapids. As a distinctively forcing lettuce this variety undoubtedly stands at the head of the list; it is largely grown for shipment, and is considered by many the best loose head lettuce for forcing under glass. Leaves medium size, of light, yellowish green color, much crimped and frilled, thin but of very upright growth; forms a fair size but loose head; crisp, tender and of good quality Pkt., 5 cts.; oz., 15 cts.; ¼ lb., 35 cts.; lb., \$1.20.

Black Seeded Simpson. An excellent forcing variety. In Chicago and other western cities, this is the most popular and best selling lettuce that can be grown. It differs from the Early Curled Simpson, being much lighter in color, the leaves being nearly white and attaining nearly double the size of that variety Pkt., 5 cts.; oz., 15 cts.; ¼ lb., 35 cts.; lb., \$1.00.

Prize Head. Plant large, deep green, so washed with red as often to appear more red than green, forming a head of a dense mass of leaves rather than one like a cabbage, and very slow to run to seed; leaves large, nearly round, frilled at the edge and densely blistered. Pkt., 5 cts.; oz., 15 cts.; ¼ lb., 35 cts.; 1 lb., \$1.00.

Early Curled Silesian. This variety does not head, but forms a compact, close mass of leaves. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 30 cts.; lb., 90 cts.

New York. Well known eastern sort. Pkt., 5 cts.; oz., 15 cts.; ¼ lb., 35 cts.; lb., \$1.20.

Iceberg. (New). Of beautiful appearance and excellent quality; leaves green, slightly tinged with red at the edge; heads good size. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 30 cts.; 1 lb., \$1.00.

St. Louis Butter. This is a great favorite with Chicago gardeners, owing to its solidity, crispness and good flavor. It withstands the summer heat extremely well and is slow to run to seed. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 30 cts.; lb., \$1.00.

Silver Ball. An all year round lettuce of excellent qualities; good for early spring, summer or winter forcing; silver white solid heads with beautiful curled leaves. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 30 cts.; lb., \$1.00.

St. Louis Forcing. This is the leading forcing variety with the St. Louis Market Gardeners. The best for forcing or early planting out doors. Pkt., 5 cts.; oz., 20 cts.; ¼ lb., 50 cts.; lb., \$1.50.

Hanson. Heads very large, solid, tender, crisp and of fine flavor. It stands the hot sun and drought. Pkt., 5 cts.; oz., 15 cts.; ¼ lb., 35 cts.; lb., \$1.00.

Yellow Seeded Butter. A valuable variety for late spring or summer planting, as it will stand the heat better than most sorts, and is slow to go to seed. Its large, solid, yellow heads are very crisp and tender. Pkt., 5 cts.; oz., 15 cts.; ¼ lb., 35 cts.; lb., \$1.20.

Stubbhead. Solid heads, crisp and hardy. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 30 cts.; lb., \$1.00.

Wernich's Private Stock. See Novelties, Page 2.

KOHLRABI.

German—Knoll Kohl. French—Chou Rave.
Spanish—Colrabanó.

When young and tender, they are fine for table use; when matured, they keep well and are excellent for feeding stock.

Early White Vienna. Handsome and delicate. For forcing. Pkt., 5 cts.; oz., 20 cts.; ¼ lb., 60 cts.; lb., \$1.75.

Early Purple Vienna. A good sort, of purple color. Pkt., 5 cts.; oz., 20 cts.; ¼ lb., 60 cts.; lb., \$2.00.

Large Green. Forms a large ball. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 30 cts.; lb., \$1.00.

LEEK.

German—Poree oder Lauch. French—Poireau.
Spanish—Puerro.

Sow early in spring, and when plants are three or four inches high, thin to eight inches apart. Hoe the earth well up to the stalk to blanch it. One ounce to 100 feet of drill.

American Flag. Popular market sort, hardy. Pkt., 5 cts.; oz., 15 cts.; ¼ lb., 40 cts.; lb., \$1.25.

Large Carentan. A superior sort; dark leaves, very hardy. Pkt., 5 cts.; oz., 15 cts.; ¼ lb., 40 cts.; lb., \$1.35.

MANGO MELON.

(Vegetable Vine Peach.)

They are excellent for preserves or sweet pickles, and when fully ripe, are considered a delicacy sliced raw and served with sugar. Pkt., 5 cts.; oz., 15 cts.; ¼ lb., 40 cts.; lb., \$1.25.

GARDEN LEMON.

Resembles Vine Peach, only smaller. Used for pickling. Also a good food for hogs, tending to keep them in a healthy condition. Pkt., 10 cts.; 3 for 25 cts.

MARTYNIA.

Sow in May, in the open ground, three feet apart in each direction, where the plants are to remain; or, the seed may be sown in a hot-bed, and the seedlings afterward transplanted. Pick when small and tender, and preserve the same as cucumbers.

Proboscidea. Pkt., 5 cts.; oz., 30 cts.; ¼ lb., \$1.00; lb., \$3.00.

Aug. Stadler, Illinois, writes. All of your Seeds done well, but Yellow Seeded Butter Lettuce "beats all."

WATER MELON.

German—Wasser Melone. French—Melon d'Eau.
Spanish—Sandia.

Carl Roerke, New York, writes. Your Seeds proved the best I ever sowed. Send Catalogue for 1903.

A light, sandy soil, with good exposure to the sun, is the best for Watermelons. It should be prepared deep, but receive shallow cultivation. Hoe often and thoroughly. If extra large melons are desired for exhibition purposes, leave but one or two melons on a vine. Plant in hills eight to ten feet apart each way, with a shovelful of well-rotted manure mixed with the soil in the hill. Plant eight or ten seeds in each hill, and, finally, when danger of insects is past, leave but three strong plants. One ounce of seed for thirty hills; one to two pounds for an acre.

COLE'S EARLY.

A delicious and productive variety for the family garden, succeeding in Northern states. It is so early that it matures in every State; very hardy; the flesh is deep red in color, clear to the rind, and is most sweet and delicate in flavor. It is exceedingly brittle, and hence cannot be shipped to distant markets, but is most desirable for the home garden. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 25 cts.; lb., 75 cts.

Boss. Oblong, dark green rind, deep scarlet flesh. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 25c; lb., 75c.

Cuban Queen. Regularly marked, early, solid and heavy. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 25 cts.; 1 lb., 85 cts.

Kolb's Gem. Large bright red flesh. A good shipper. Pkt., 3 cts.; oz., 10 cts.; ¼ lb., 20 cts.; 1 lb., 50 cts.

Mountain Sweet. An old reliable sort, of good quality. Pkt., 3 cts.; oz., 10 cts.; ¼ lb., 20 cts.; 1 lb., 60 cts.

Mountain Sprout. A late sort of excellent quality. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 20 cts.; 1 lb., 50 cts.

A Schill, Minn., writes: Your Vegetable Seeds produced fine crops.

A rich, sandy soil is most desirable for melons. The seed should be planted when the ground has become warm, in hills six feet apart each way. Old, well-rotted manure should be thoroughly mixed with the soil in each hill; put six to ten seeds in the hill; finally, when danger from insects is past, leave three or four of the strongest plants only. If the plants grow very rank, the tips of the strongest shoots should be pinched off when about three feet long; also if the fruit is excessive, they may be thinned out, which will cause the melons to ripen earlier and increase the size of the fruit. Melons may be forced like cucumbers, and the practice is growing in favor annually among home men, as the method becomes better understood, and on account of the large profit gained by having home-grown melons in market some days ahead of the outside planting. Cultivate thoroughly and often. One ounce of seed for sixty hills; two or three pounds for an acre.

The Banquet. Beautifully netted, medium size, flesh rich salmon. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 30 cts.; lb., \$1.00.

Netted Gem. Flesh green, size uniform, shape oval. Pkt., 5 cts.; oz., 15 cts.; ¼ lb., 40 cts.; lb., \$1.25.

Green Citron. A large melon of fine flavor, often weighing 12 lbs. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 30 cts.; lb., \$1.00.

Extra Early Hackensack. One of the earliest and of fine flavor. Pkt., 5 cts.; oz., 15 cts.; ¼ lb., 40 cts.; lb., \$1.25.

Tip Top. Possesses all good qualities and very early. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 30 cts.; lb., \$1.00.

Paul Rose. A new red fleshed melon, a cross between the well-known Osage and Netted Gem, which gives it the sweetness of the former and the netting of the latter. Pkt., 5 cts.; oz., 15 cts.; ¼ lb., 40 cts.; lb., \$1.20



The Dixie. A watermelon whose name and fame are known the country over. It is conceded to be the best shipper and keeper grown. It is large, ten days earlier, more beautifully striped and of finer appearance than Kolb's Gem. Skin dark green, striped, flesh bright deep scarlet, sweet, tender and juicy. A most valuable cropper. Pkt., 3 cts.; oz., 10 cts.; ¼ lb., 20 cts.; lb., 50 cts.

MAMMOTH IRON-

CLAD.

A monstrous, striped, oblong melon, having a rind of such remarkable strength and impenetrability as to render it perfectly "iron-clad," hence the best shipper produced to date. Flesh red, sweet, tender, crisp and juicy. Heart very large. The keeping qualities of this melon are remarkable. Whether plucked or left upon the vines, they remain perfectly fresh fully one month after ripening. In addition to the foregoing facts it is the most remarkable yielder on record. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 25 cts.; lb., 70 cts.

Rattlesnake. Bright red flesh. Oblong in shape. Late. Pkt., 3 cts.; oz., 10 cts.; ¼ lb., 25 cts.; lb., 75 cts.

Citron. Round and handsome, for preserving; red seed. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 25 cts.; lb., 75 cts.

Colorado Preserving. Used for preserves; green seed. Pkt., 3 cts.; oz., 10 cts.; ¼ lb., 20 cts.; lb., 60 cts.

MUSK MELON.

German—Melone. French—Melon. Spanish—Melon.

C. Gabelmann, Iowa, writes: Am always satisfied with your Seeds.

Princess. Large, green skin, yellow flesh, early and productive. Pkt., 5 cts.; oz., 15 cts.; ¼ lb., 40 cts.; lb., \$1.50.

Osage. One of the best varieties for market gardeners. Pkt., 5 cts.; oz., 15 cts.; ¼ lb., 40 cts.; lb., \$1.25.

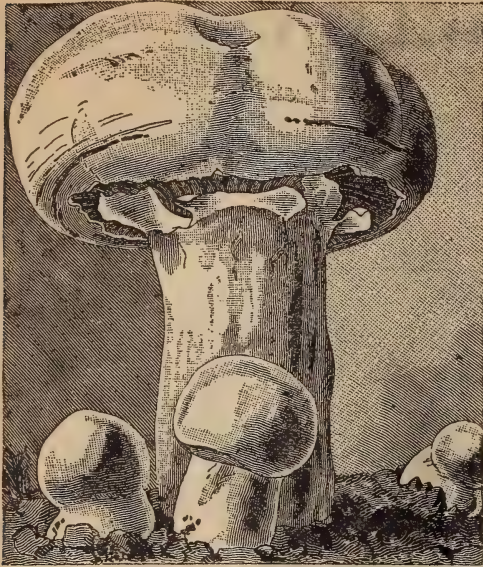
Winter Pineapple. An extraordinary melon, which can be kept in splendid condition for months after harvesting. late. Pkt., 5 cts.; oz., 15 cts.; ¼ lb., 35 cts.; lb., \$1.25.

Shumway's Giant. One of the largest. Pkt., 5 cts.; oz., 15 cts.; ¼ lb., 40 cts.; lb., \$1.25.

Long Yellow Cantaloupe. Yellow flesh; very hardy and adapted for the north. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 30 cts.; lb., 90c.

Prolific Nutmeg. Medium size with flat ends. Very delicious. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 30 cts.; lb., \$1.00.





MUSHROOM SPAWN.

Mushrooms can be grown in a cellar, in sheds, or in hot beds in open air, on shelves, or out-of-the-way places. Fermenting horse manure at a temperature of about 70 degrees, mixed with an equal weight of fresh sod loam, is made into beds the size required, eight inches deep. See to it that the bed is packed very solidly and evenly. In this bed plant the broken pieces of spawn six inches apart, covering the whole with two inches of light soil, and protect from cold and rain. One brick will plant eight to ten square feet of bed. The mushrooms will appear in about six weeks. Water sparingly and with luke warm water.

English. In bricks. Prepaid, 1 lb., 25 cts.; not prepaid, 1 lb., 15 cts.; 8 lbs., \$1.00.

French. Loose. Prepaid, 1 lb., 50 cts.; 3 lbs., \$1.25; not prepaid, 1 lb., 40 cts.; 3 lbs., \$1.00.

Robinson's Mushroom Culture. A book giving directions how to raise mushrooms. Postpaid, 50 cts.

MUSTARD.

German—Senf. French—Moutarde. Spanish—Mostazoe.

Mustard is not only used as a condiment, but the green leaves are used as a salad, or cut and boiled like Spinach. Cultivate same as Cress.

White English. The leaves are light green, mild and tender when young; seed, light yellow. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 15 cts.; 1 lb., 40 cts.

Brown or Black Mustard. More pungent in flavor than the white. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 15 cts.; 1 lb., 40 cts.

OKRA OR GUMBO.

German—Safran. French—Gombaud. Spanish—Gombo. The pods, when young, are used in soups, stew, etc., and are very nutritious. Sow at the usual time of all tender vegetables, and set the plants from two to three feet apart in drills.

Improved Dwarf Green. Tender and long pods. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 20 cts.; 1 lb., 50 cts.

PARSNIPS.

German—Pastinake. French—Panais. Spanish—Chirivía.

Cultivate as for Carrots. It is customary to leave Parsnips in the ground over winter as frost improves the quality of the roots. The Parsnip is valuable not only as a table vegetable but for stock feeding purposes also.

Guernsey. Half long; good cropper. Pkt., 3 cts.; oz., 10 cts.; ¼ lb., 15 cts.; 1 lb., 55 cts.

Long Smooth or Hollow Crown. The best for table use. Pkt., 3 cts.; oz., 10 cts.; ¼ lb., 15 cts.; 1 lb., 50 cts.

PARSLEY.

German—Petersille. French—Persil. Spanish—Peregil. Sow early in Spring half an inch deep, previous, soaking the seeds for a few hours in tepid water. One ounce to 150 feet of drill.

Fine Double Curled. A fine dwarf variety. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 25 cts.; 1 lb., 75 cts.

Plain. The leaves are plain; it is harder than the curled. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 20 cts.; 1 lb., 50 cts.

Hamburg or Turnip Rooted. A fleshy, rooted kind; the roots are used for flavoring soups. Pkt., 3 cts.; oz., 10 cts.; ¼ lb., 20 cts.; 1 lb., 60 cts.

PEPPER.

German—Pfeffer. French—Piment. Spanish—Pimiento.

Sow in hot-beds in March, and when the soil has become warm, set in rows two feet apart and eighteen inches in the row.

Procupp's Giant. Scarlet red fruit, eight to ten inches in length and three inches in diameter. Pkt., 5 cts.; oz., 30 cts.; ¼ lb., 85 cts.; 1 lb., \$3.00.

Ruby King. Large, bright red fruit; mild. Pkt., 5 cts.; oz., 20 cts.; ¼ lb., 65 cts.; 1 lb., \$2.25.

Sweet Spanish. (Bell Shaped.) A pickling variety. Pkt., 5 cts.; oz., 25 cts.; ¼ lb., 60 cts.; 1 lb., \$2.00.

Golden Dawn. Handsome and mild. Pkt., 5 cts.; oz., 25 cts.; ¼ lb., 75 cts.; 1 lb., \$2.25.

Chili Red. Productive and largely used for pickling. Pkt., 5 cts.; oz., 20 cts.; ¼ lb., 60 cts.; 1 lb., \$2.25.

PUMPKINS.

German—Feld-Kuerbis. French—Potiron. Spanish—Calabaza Fotanera.

Plant in May or early June, in hills eight feet apart each way. One ounce for fifteen hills; four to six pounds to an acre.

Calhoun. Very superior quality, yellow flesh; fine for pies. Pkt., 3 cts.; oz., 10 cts.; ¼ lb., 20 cts.; 1 lb., 70 cts.

Large Cheese. Flat, and one of the best varieties for family use. Pkt., 3 cts.; oz., 10 cts.; ¼ lb., 20 cts.; 1 lb., 50 cts.

Wernich's Mammoth Giant. The largest of all sorts, sometimes weighing 250 lbs. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 35 cts.; 1 lb., \$1.15.

Connecticut. Grown for stock; productive. Pkt., 3 cts.; oz., 10 cts.; ¼ lb., 15 cts.; 1 lb., 35 cts.

Negro. Pkt., 3 cts.; oz., 10 cts.; ¼ lb., 20 cts.; 1 lb., 60 cts.





German—Zwiebel. French—Oignon. Spanish—Cebolla.

The Onion thrives best in rather strong, deep, loam soil, which should be well enriched with old well-rotted manure or compost, or what is better, deeply trench, add manure the autumn previous to sowing, and lay upon ridges during the winter to soften. Sow the seed in drills about one-quarter inch deep and one foot apart. To ensure quick and safe germination after sowing the seed, the drills should be trod along evenly with the foot, and raked even so that the hot, dry atmosphere may not dry up and destroy the sprouting seed. When three inches high, thin to two inches apart. Hoe frequently to keep down weeds. In the seed rows where the hoe cannot be used, the soil should be stirred with the fingers, otherwise weeds will quickly grow and choke the crop. One ounce of seed will sow one hundred feet drill; four pounds to the acre.

SOME NEW SORTS OF HIGH MERIT.

Austrian Brown. An extra early, longkeeping, medium sized globe shaped Onion, ripening three or four weeks ahead of Red Wethersfield. The color is a clear brown amber, and they are remarkable keepers, onions having been kept a whole year in first-class condition. Pkt., 5c; oz., 10c; ¼ lb., 35c; 1 lb., \$1.10.

Improved Globe Wethersfield. An improvement over the old Red Wethersfield, from which it differs not only in purity of stock and perfection of shape, but in earliness, productiveness and beauty of color. Globe-shaped Onions are preferable and more profitable than flat varieties to grow, as they occupy no more room in the row, but weigh more and measure better. Pkt., 10c; oz., 25c; ¼ lb., 60c; 1 lb., \$2.25.

Minnesota White Globe.

A new white Onion of handsome shape and beautiful appearance. The outer skin possesses that lustre so desirable and yet so often lacking in White Globe stock. Flesh pure snow white and of an extremely mild flavor. Pkt., 10c; oz., 25c; ¼ lb., \$1.00; 1 lb., \$3.00.

Giant Yellow Zittau. A long keeping Onion. Of fine form and color. A good cropper and one of the best for shipping. Grows to a large size and has a fine mild flavor. An Onion that will meet with much favor amongst Market Gardeners. Pkt., 5c; oz., 25c; ¼ lb., 60c; 1 lb., \$2.00.

White Portugal. A large, flat, clear, white-skinned onion of handsome appearance and mild flavor. It is desirable for family use and is also planted for sets and pickles. Pkt., 5c; oz., 20c; ¼ lb., 60c; 1 lb., \$2.00.

Yellow Globe Danvers. Select stock. Our Seed of this variety is the very best to be obtained and is of a stock of the true Globe shape. Its uniformity of size and shape of bulbs and its long keeping qualities places it in the lead of all yellow Onions. Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., \$1.00.

Round Yellow Danvers. Same as the preceding, but flatter; ripens early, is of good size and flavor. Unexcelled as a keeper. Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 90c.

Extra Early Flat Red. A medium sized variety, producing abundantly and earlier than Red Wethersfield. ing into use about two weeks Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.40.

Large Red Wethersfield. A large cropper, and one of the best for marketing and shipping. Grows to large size. Strong flavor. A good sort, but not to be compared with our Improved Globe Wethersfield. Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.10.

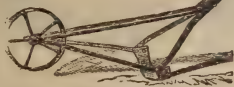
Yellow Strasburg. One of the best keeping sorts. Bulb flat, skin dark yellow, flesh white, solid and mild flavored. Pkt., 5c; oz., 15c., ¼ lb., 35c; 1 lb., \$1.15.

Southport White Globe. A large, handsome globe-shaped onion, skin and flesh a beautiful clear white. Flesh firm, very fine grained and exceedingly mild in flavor. A splendid keeper, and always commands a high price in the market. Pkt., 5c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.25.

Extra Early Red Globe. Of the well-known Southport strain, maturing as early as the Early Flat Red and Danvers. The Southport strains are much sought after, owing to their handsome appearance and to their being much heavier croppers than the flat types. Pkt., 5c; oz., 15c; ¼ lb., 50c; 1 lb., \$1.60.

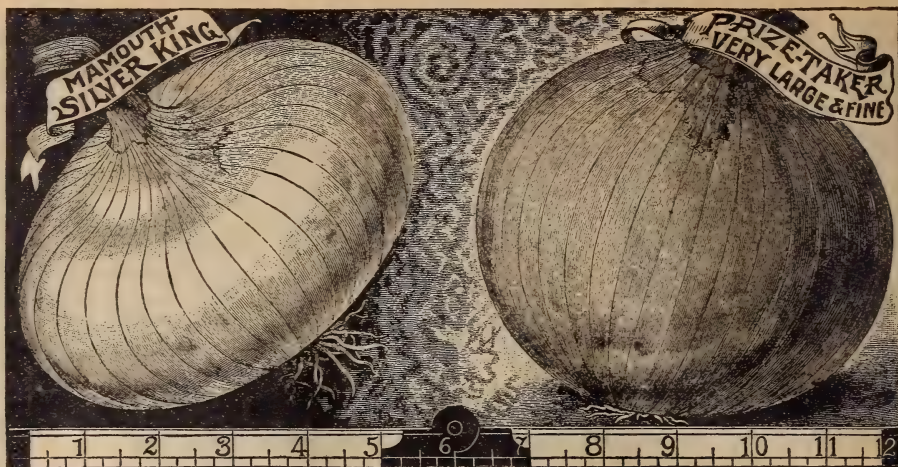
The Weed Slayer.

A handy tool for garden cultivating. Cuts 1½ in. deep and 7 in. wide.



Especially adapted for cultivating Onions. It is so light (8 lbs.) a child can operate it.

PRICE
ONLY
\$1.95

C
H
O
I
C
ES
E
L
E
C
T

ONION SEED—Continued.

PRIZE TAKER ONION.

It is globe-shaped; of a clean, bright yellow or straw color. Has a small neck and ripens up hard. Keeps well until about midwinter. Flesh thick, white, mild and agreeable in flavor. It is easily grown, medium early in maturing. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.50.

BERMUDA ONIONS.

Bermuda Island White. Grown in many sections of the South to the exclusion of all other sorts, for the Northern market. Very early and profitable. Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$2.00.

Bermuda Island Red. Same as Bermuda White, except in color, which is red. Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$2.00.

ITALIAN ONIONS.

White Mammoth Silver King. Early and productive; skin and flesh white. Bulbs sometimes weigh 3 lbs. and over. Pkt., 5c; oz., 20c; ¼ lb., 65c; lb., \$2.00.

Red Mammoth Pompei. Rapid grower and very large, single specimens often weighing 4 lbs. Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$1.75.

White Pearl. Extra early; a splendid Italian Onion of mild flavor; flesh and skin pure white. Good keeper. This onion has won first premium at all fairs whenever shown. Our strain is particularly fine. Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$2.00.

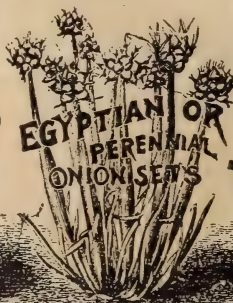
PICKLING VARIETIES.

White Queen. Bulbs small flat, pure white and of mild flavor. Pkt., 5c; oz., 25c; ¼ lb., 75c; lb., \$2.25; 5 lbs., \$10.75.

White Silverskin. For bunching or pickling. Pkt., 5c; oz., 25c; ¼ lb., 75c; lb., \$2.25; 5 lbs., \$10.75.

ONION SETS.

Bottom Sets are sold by measure. Multiplier, Button and Egyptian, by weight, 28 lbs. for a bushel.

F
R
E
S
HBOTTOM
ONION SETSPOTATO
ONION SETSC
L
E
A
N

Onion Set Prices. Prices are based on the present market rates and are subject to change, according to the market, without notice. Lowest market prices on small or large quantities will be given on application at any time.

Bottom Onions, or Onion Sets. Are produced by sowing the seed thickly in the spring, in beds or drills, and about the end of July, or whenever the tops die down, the little bulbs or sets are gathered and reset in the spring to make large Onions.

Yellow Bottom Sets. Prepaid, pt., 15c; qt., 25c; Not prepaid, pt., 10c; qt., 15c; peck, 75c; bu., \$2.50.

White Bottom Sets. Prepaid, pt., 15c; qt., 25c; Not prepaid, pt., 10c; qt., 15c; peck, 80c; bu., \$2.75.

Winter Egyptian, or Perennial Tree. When once set out they grow for years without protection or care, except in keeping down the weeds. It is mild-flavored, sweet and tender. They form no large bulbs, but divide and grow as many as fifteen or twenty small onions in a bunch. Desirable for family use, and very profitable for market gardeners. Prepaid, pt., 15c; qt., 25c. Not prepaid, pt., 10c; qt., 15c; peck, 75c; bu., \$2.75.

Top Sets or Bottoms. "Toppys." These produce the small clusters on the top of the stem. These small ones are planted in the spring and the result is large onions, and these large ones, with one year's growth, produce the clusters on top. Prepaid, pt., 15c; qt., 25c; Not prepaid, pt., 10c; qt., 15c; peck, \$1.00; bu., \$3.50.

Multipliers, or Shallots. (Potato Onion Sets.) Are enormously productive, frequently producing as many as twenty bulbs in a single cluster from a single bulb planted; of excellent quality and size for bunching green; or can be ripened for use as pickling onions.

White Shallots. Prepaid, pt., 25c; qt., 40c. Not prepaid, pt., 20c; qt., 30c; peck, \$1.00; bu., \$3.75.

Yellow Shallots. Prepaid, pt., 25c; qt., 40c. Not prepaid, pt., 20c; qt., 35c; peck, \$1.00; bu., \$3.75.

PEAS.

German—Erbse. French—Pois. Spanish—Guisante.

For first early Peas sow in a light, rich soil, as early in March or April as the ground can be worked; for later varieties, sow in April or May. Discontinue sowing from June to August, after which, by sowing an extra early sort, a good crop can generally be secured. As Peas suffer considerably from drought during the hot summer months, it will be found of great benefit to sow the Peas in a trench six inches in depth, covering the Peas to a depth of two inches. As soon as sufficient growth has been made draw the earth about the vines. In this way a great deal more moisture is kept about the roots than if sown on the level and afterwards hilled up. The wrinkled varieties are not so hardy as the smooth sorts and should be planted later, owing to their liability to rot in the ground, but are much superior in flavor to the smooth Peas. Dwarf varieties sow in rows one foot apart, and the taller sorts from two or three feet apart.

One quart to 75 feet of drill. Two bushels to an acre in drills.

Those marked * are wrinkled.

EXTRA EARLY VARIETIES.

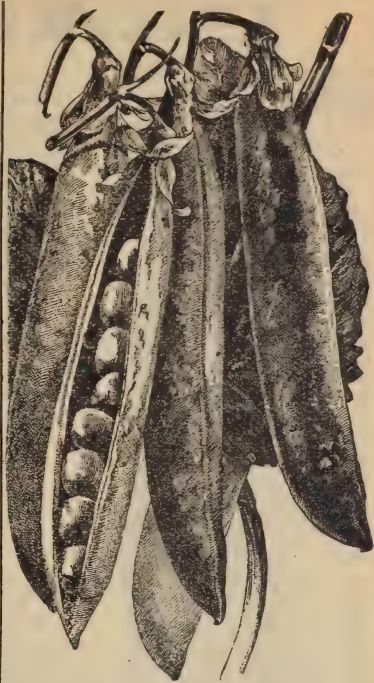
***Gradus or Prosperity.** This Pea grows about thirty inches high, requires no support, though sticks or bushes can be used if preferred. The pods are large, nearly round and plump, bright green in color, well-filled with peas that are sweet, rich and mellow.

One market gardener says of it: "Gradus is nice looking, easy to pick, and sells better than the smaller kinds." It is a grand pea in all respects, —is now recognized as a leader. Every gardener would do well to make a planting of Gradus. Prepaid, pkt., 10c; pt., 40c; qt., 65c; not prepaid, pt., 30c; qt., 50c; peck, \$3.50; bu., \$12.00.

Wernich's "First and Best." The Earliest of the Earlies. This is the best variety for market gardeners to plant, and for home use we have yet to find a better. Grows about 30 inches high. Vines vigorous, extremely prolific, the pods being numerous and well filled with peas of good size and delicious flavor. A further good quality is that of ripening with great uniformity so that the vines can be stripped at one picking. Prepaid, pkt., 5c; pt., 30c; qt., 45c; not prepaid, pt., 20c; qt., 30c; pk., \$1.50; bu., \$5.00.

Alaska. The earliest blue pea, very uniform in growth. The dark green color of the pods make it extremely desirable, as it can be carried long distances without losing color, which quality, combined with its earliness, and uniformity of ripening, makes it a most desirable extra early pea for market gardeners and shippers; height, 2 feet. Prepaid, pkt., 5c; pt., 30c; qt., 45c. Not prepaid, pt., 20c; qt., 30c; pk., \$1.60; bu., \$5.75.

***McLean's Little Gem.** Eighteen inches. A few days later than "First and Best." Matures in eight weeks. When in a green state the peas are sweet and delicious. Prepaid, pkt., 5c; pt., 30c; qt., 45c. Not prepaid, pt., 20c; qt., 30c; pk., \$1.75; bu., \$6.75.



Gradus or Prosperity.

***American Wonder.** This variety is one of the Earliest Wrinkled Peas in cultivation. It is of dwarf and robust habit, growing from ten to twelve inches high, and produces a profusion of good sized and well filled pods of the finest flavor. Well known. Prepaid, pkt., 5c; pt., 28c; qt., 45c. Not prepaid, pt., 20c; qt., 30c; pk., \$2.25; bu., \$7.75.

***Premium Gem.** Fifteen inches. This is an extra early dwarf sort, an improvement on Little Gem. Pods long, dark green. Prepaid, pkt., 5c; pt., 30c; qt., 45c; Not prepaid, pt., 20c; qt., 30c; pk., \$1.75; bu., \$6.75.

Tom Thumb. Extra early. Height, 12 inches. Prepaid, pkt., 5c; pt., 30c; qt., 45c. Not prepaid, pt., 20c; qt., 30c; pk., \$1.50; bu., \$5.50.

*NOTT'S EXCELSIOR.

This great Pea is so hardy and vigorous that it may safely be planted in early Spring with any smooth variety, and can be counted on for table use almost as soon, while as everyone knows, the quality of any wrinkled Pea is far superior to any smooth. Time after time they have been fit for the table fifty days from planting, with the most ordinary cultivation. Pods are square and chunky, always containing from five to seven large Peas, packed so closely together in the pods that the Peas are always more square than round. It grows to a uniform height, about one foot, and is at all times very tender and of fine flavor. Seldom has any vegetable been more unanimously recommended than has Nott's Excelsior Pea. Our Stock is "True." Prepaid, pkt., 5c; pt., 28c; qt., 45c. Not prepaid, pt., 20c; qt., 30c; pk., \$2.00; bu., \$7.50.

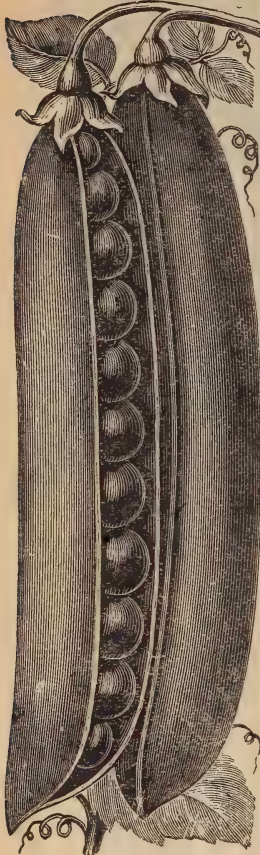


NOTT'S EXCELSIOR



AT
PREPAID
PRICES
WE
DELIVER
ALL PEAS
OFFERED
FREE TO ANY
POST OFFICE
IN THE
UNITED
STATES.

PEAS—CONTINUED.



Heroine.

Best Peas for Table Use.

They may be planted at the same time and will be ready for use in succession and furnish an abundance of delicious peas all summer.

Nott's Excelsior, Heroine and Telephone.

SPECIAL OFFER.

1 Pint each of these three, for 70c postpaid.
1 Quart each of these three, for \$1.25 postpaid.

MAIN CROP VARIETIES.

*TELEPHONE.

Immense pods, well filled with large Peas of a rich sugary flavor. The best of all the main crop peas.

The vines grow to about 4 feet in height, and are enormously productive, producing in great profusion large well filled pods. We have a very finely selected stock of this favorite pea. Prepaid, pkt., 5c; pt., 30c; qt., 45c. Not prepaid, pt., 20c; qt., 30c; peck, \$1.75; bu., \$6.50.

***Improved Stratagem.** A great improvement on the old Stratagem, which of late years has been going steadily back in quality. Height, 12 inches. In this improved stock we have a late Pea of medium height, a heavy cropper producing large, dark green, showy pods, well filled with peas of a superior quality. A grand market gardener's pea. Prepaid, pkt., 5c; pt., 30c; qt., 45c. Not prepaid, pt., 30c; peck, \$1.75; bu., \$6.25.

***Champion of England.** Well known; sow thickly. Height, 5 feet. Prepaid, pkt., 5c; pt., 23c; qt., 40c. Not prepaid, pt., 15c; qt., 25c; peck, \$1.25; bu., \$4.50.

Dwarf White Marrow. Height, 18 inches. Prepaid, pkt., 5c; pt., 18c; qt., 30c. Not prepaid, pt., 10c; qt., 15c; peck, 85c; bu., \$2.75.

Large White Marrowfat. A heavy yielder. Height, 4 feet. Prepaid, pkt., 5c; pt., 18c; qt., 30c. Not prepaid, pt., 10c; qt., 15c; peck, 75c; bu., \$2.75.

Black Eyed Marrowfat. Very hardy and prolific. Height, 3 feet. Prepaid, pkt., 5c; pt., 18c; qt., 30c. Not prepaid, pt., 10c; qt., 15c; peck, 75c; bu., \$2.75.

SECOND EARLY VARIETIES.

***Heroine.** A new medium early, green wrinkled Pea, of very superior quality. It grows to a uniform height of 2½ feet, bearing very large, well-filled pods in great profusion. This is without doubt the best of the Second Early Peas. Prepaid, pkt., 5c; pt., 30c; qt., 45c. Not prepaid, pt., 20c; qt., 30c; pk., \$1.65; bu., \$6.00.

***Horsford's Market Garden.** Standard sort, prolific Height 30 inches. Prepaid, pkt., 5c; pt., 30c; qt., 45c. Not prepaid, pt., 20c; qt., 30c; pk., \$1.50; bu., \$5.50.

French Canner. A small Pea, used extensively for canning purposes. Height, 48 inches. Prepaid, pkt., 5c; pt., 23c; qt., 40c. Not prepaid, pt., 15c; qt., 25c; pk., \$1.25; bu., \$4.50.

***Abundance.** Round, well filled pods. Height 18 inches. Prepaid, pkt., 5c; pt., 30; qt., 45c. Not prepaid, pt., 20c; qt., 30c; pk., \$1.50; bu., \$5.50.

SUGAR VARIETIES. Edible Pods.

***Dwarf Wrinkled Sugar.** Fine quality and productive. Height, 18 inches. Prepaid, pkt., 5c; pt., 30c; qt., 45c. Not prepaid, pt., 20c; qt., 30c; peck, \$1.95; bu., \$7.00.

Mammoth Sugar. One of the best of the edibles. Height, 5 feet. Prepaid, pkt., 5c; pt., 28c; qt., 45c. Not prepaid, pt., 20c; qt., 30c; peck, \$1.75; bu., \$6.75.

Tall Gray Sugar. Height, 5 feet. Prepaid, pkt., 5c; pt., 30c; qt., 45c. Not prepaid, pt., 20c; qt., 30c; peck, \$2.00; bu., \$7.75.



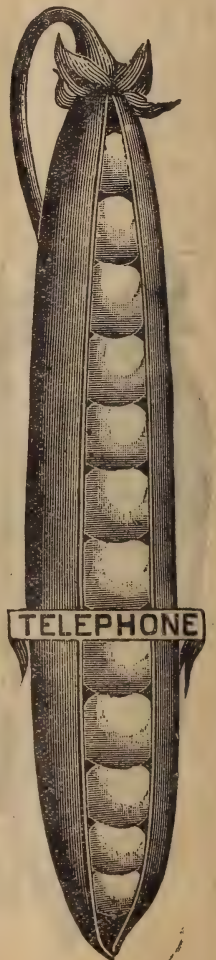
Stratagem.

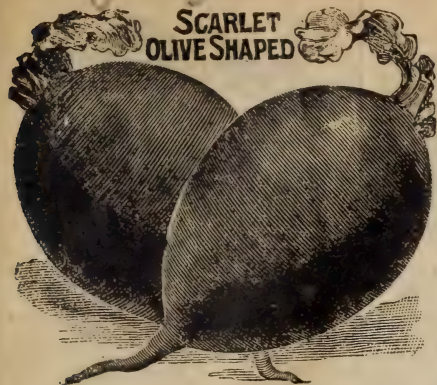
For Field Peas,

See Page 40.

Farm Seed

Department.





RADISHES.

German—Radles. French—Radis. Spanish—Rabanos.

One ounce to about 100 feet of drill; 8 to 10 pounds for an acre. The soil for Radishes should be very rich, light and mellow, well broken by digging, as their tender and mild qualities depend much upon their rapid growth. For very early use sow in gentle hot beds in February, and in open air as soon as the ground can be worked, at intervals of ten or twelve days for a succession, as long as they may be wanted. The Turnip Rooted are the best for sowing in the summer. The winter varieties should be sown August, and lifted before severe frost and stored in the cellar.

Wernich's Early Erfurt. See Novelties, page 3.

Early Scarlet Globe. For forcing in green house, hotbeds, or cold frames, and for sowing in the open ground early in the spring, there is no other red variety more desirable. It is entirely distinct and one of the earliest; in flavor it is mild, crisp, juicy and tender. It forms a small top and will stand a great amount of heat without becoming pithy. Pkt., 3c; oz., 10c; ¼ lb., 25c; lb., 75c.

Earliest Deep Scarlet Forcing. Color a dark red of handsome shape, resembling the Globe, but smaller. A first class forcing radish. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.

Scarlet Turnip. Its shape is of the best type of the round sorts; color of skin a very dark red; white flesh, with small top root, one of the best for forcing. Pkt., 3c; oz., 10c; ¼ lb., 20c; lb., 50c.

Early Scarlet Turnip, White Tipped. Very early; color bright scarlet, tipped with white; an excellent market variety; fine for forcing and out doors. Pkt., 3c; oz., 10c; ¼ lb., 20c; lb., 60c.

Scarlet Olive Shaped. Ripen in 25 days. A good marketing Radish and one that sells on sight on account of its fine shape and color. Pkt., 5c; oz., 15c; ¼ lb., 30c; lb., 90c.

White Summer Turnip. Very large and round in form. Pkt., 3c; oz., 10c; ¼ lb., 20c; lb., 50c.

Gray Summer Turnip. Very good variety for field sowing. Pkt., 3c; oz., 10c; ¼ lb., 25c; lb., 55c.

Golden Summer Turnip. Smooth and bright yellow low skin. Pkt., 3c; oz., 10c; ¼ lb., 20c; lb., 60c.

French Breakfast. Skin scarlet on the body and white at the extremity; flesh white, tender and mild. Of rapid growth. Pkt., 3c; oz., 10c; ¼ lb., 20c; lb., 60c.

Long Scarlet Short Top. Has a short and compact top. In shape it is somewhat shorter and thicker. In color the upper portion is of unusually deep brilliant red, which gradually shades to a deep, waxy pink towards the end. Pkt., 3c; oz., 10c; ¼ lb., 20c; lb., 60c.

White Strassburg Summer. This variety is a handsome oblong shape, tapering beautifully to a point. Both skin and flesh are pure white, almost transparent, very tender and of a delightful pungent taste. It can be pulled five weeks from time of sowing the seed, yet it will continue to grow without losing its fine qualities, and remain in a tender condition longer than any other summer sort. Pkt., 3c; oz., 10c; ¼ lb., 20c; lb., 60c.

Japanese Long White. Flesh pure white and crisp. Pkt., 3c; oz., 10c; ¼ lb., 25c; lb., 75c.

Stuttgart White Mammoth. Very early and very large. Pkt., 3c; oz., 10c; ¼ lb., 20c; lb., 60c.

California White Mammoth. A very large winter variety. Pkt., 3c; oz., 10c; ¼ lb., 25c; lb., 60c.

China Winter. A fine and salable variety. Pkt., 3c; oz., 10c; ¼ lb., 20c; lb., 60c.

Round Black Spanish. A fine winter sort. Pkt., 3c; oz., 10c; ¼ lb., 20c; lb., 60c.

Long Black Spanish. The popular winter sort. Pkt., 3c; oz., 10c; ¼ lb., 20c; lb., 60c.



RHUBARB.

Pie Plant.—Wine Plant.

German—Rhabarber. French—Rhubarbe. Spanish—Ruibarbo.

A deep, rich soil is best for Rhubarb. Sow early in drills eighteen inches apart and one inch deep; the spring following transplant, allowing each plant at least two feet square; each fall mulch with manure. One ounce makes about 600 plants.

Linnaeus. Very early, large and crisp. Pkt., 5c; oz., 10c; ¼ lb., 35c; lb., \$1.25.

Victoria. Large and later than Linnaeus. Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.50.

SALSIFY OR OYSTER PLANT.

German—Bochsart. French—Salsifis. Spanish—Salsif Blanco.

Grows best in light, well-enriched soil, which, previous to sowing the seed, should be dug up to a depth of eighteen inches. Sow early in spring in drills fifteen inches apart and one and one-half inches deep, and when the plants are strong enough, thin out to six inches apart. One ounce to 70 feet of drill.

Large White. Very thick and smooth. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00.

Mammoth Sandwich Islands. Large and superior. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.40.

SCORZONERA, OR BLACK OYSTER PLANT.

Requires the same treatment as Salsify.

Black. Is prepared the same as Salsify for the table. Pkt., 5c; oz., 20c; ¼ lb., 65c; lb., \$2.25.

SEA-KALE.

German—Seekohl, Meerkohl. French—Crambe Maritime.

Grown for its blanched shoots, which are cooked as Asparagus. By planting the roots closely in a warm cellar, a supply may be had all winter. Sow in drills two feet apart, thin out to six inches, and the following spring plant in hills three feet apart.

Sea Kale. Pkt., 10c; oz., 30c; ¼ lb., \$1.00; lb., \$3.00.

SORREL.

German—Sauerampfer. French—Oseille. Spanish—Acedera.

Sow in spring in drills eighteen inches apart, in a rich soil, and keep the flower stems cut off as they appear. It remains in the ground year after year, and only needs to be taken up and divided once in four or five years. To be cut and cooked precisely like Spinach; or it is excellent cooked with it, one-third Sorrel to two-thirds Spinach. Very nice to be eaten after it has become cool. Inasmuch as the hot sun tends to increase its acidity, a northern exposure is preferable.

Broadleaved. Extensively used among the Germans. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00.

Remember, we pay the Postage on all Seeds offered on this page.

SPINACH.

Special Prices on Spinach in any Quantity on Application.

German—Spinat. French—Epinard. Spanish—Espinaca.

For spring use, sow early in drills one foot apart, and for succession every two weeks. As it grows, thin out for use, keeping it clear of weeds. For fall use sow in August; for winter use, sow in September in well manured ground; mulch with straw on approach of severe cold weather. One ounce for 100 feet of drill; 10 pounds for an acre in drills.

Bloomsdale or Savoy Leaved. Of upright growth, leaves curled and crimped, thick and fleshy. Keeps well after cutting. Suitable for fall sowing. Pkt., 3c; oz., 10c; ¼ lb., 15c; 1 lb., 35c.

Round Leaf. The main market sort, equally good for spring or fall sowing. Pkt., 3c; oz., 10c; ¼ lb., 15c; 1 lb., 35c.

Round Thick-Leaved. A decided improvement over the Round Leaf, thicker leaved and very tender. The best all-round sort either for the home, garden or market-grower. Pkt., 3c; oz., 10c; ¼ lb., 15c; 1 lb., 40c.

Long Standing. (Late Seeding.) Especially desirable from the fact that it is much later in going to seed than the older varieties. Pkt., 3c; oz., 10c; ¼ lb., 15c; 1 lb., 40c.



Round Thick Leaf.

Prickly. Stands the winter well, but gives less bulk than the Round-Leaf. Pkt., 3c; oz., 10c; ¼ lb., 15c; 1 lb., 35c.

New Zealand. Withstands heat and drought and produces leaves in great abundance throughout the summer in the hottest climates, and where ordinary Spinach will not do well; should be started in heat and transplanted three feet apart each way, into light, rich soil. Pkt., 5c; oz., 10c; ¼ lb., 20c; 1 lb., 75c.

SQUASH.

Squashes should not be planted until danger from frost is passed, but get in the winter kinds as soon as possible, in order that they may mature. Plant in hills 5 feet apart for bush varieties, and 6 or 8 feet running varieties, putting 6 to 8 seeds to the hill, finally leaving but three plants. One ounce of the bush varieties for 40 hills; or of the large-seeded kinds, 15 hills; two or three pounds of the bush, and three or four pounds of the large-seeded for an acre.

SUMMER VARIETIES.

Great Summer Crookneck. The largest squash. Pkt., 5c; oz., 15c; ¼ lb., 25c; 1 lb., 85c.

White Bush. Very early; a favorite market sort. Pkt., 5c; oz., 15c; ¼ lb., 25c; 1 lb., 85c.

Golden Custard Bush. Resembles White Bush, excepting color. Pkt., 5c; oz., 15c; ¼ lb., 25c; 1 lb., 85c.

Pineapple. Prolific; peculiar shape; skin and flesh white. Pkt., 5c; oz., 15c; ¼ lb., 25c; 1 lb., 85c.

Delicata. The earliest and most prolific of the vine Squashes. Can also be sown for winter. Although small size, the flesh is wonderfully solid, with a small seed cavity. It cooks dry, and in richness of flavor is far superior to many of the other varieties. Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 75c.

WINTER VARIETIES.

Boston Marrow. Oval, bright orange, flesh yellow. Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., 85c.

Prolific Marrow. A valuable and prolific sort. Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., 85.

Bay State. Hard Shell, for fall and winter. Pkt., 5c; oz., 15c; ¼ lb., 35c; 1 lb., 90c.

Hubbard. A late sort of superior quality. Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

Mammoth Chili. Enormous size, of a rich yellow color. Pkt., 5c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.65.

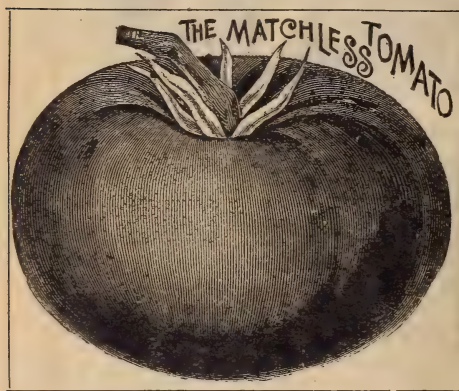
TOMATO.

German—Liebesapfel. French—Tomato. Spanish—Tomate.

The seed should be sown in a hot-bed about the first week in March, in drills five inches apart and half an inch deep. When the plants are about two inches high, they should be set out about four or five inches apart in another hot-bed. About the middle of May the plants may be set in the open ground; they are planted for early crops on light sandy soil, at a distance of three feet apart, in hills in which a good shovelful of rotten manure has been mixed. On heavy soils, which are not suited for an early crop, they should be planted four feet apart. Water freely at the time of transplanting, and shelter from the sun for a few days until the plants are established. One ounce will produce about 2,000 plants.

Wernich's German Market. See Novelties, page 3.

Matchless. The color is a rich, cardinal red. The skin is so tough that it is a splendid keeper and shipper, and is less liable to crack in wet weather than any other large tomato. Unsurpassed for market or for table. The plant is a strong grower, and is very productive, bearing with undiminished vigor until frost. The fruit is free from core, and the seed-spaces are comparatively small. The leaves are of a rich, dark green color, and very luxuriant, indicating great constitutional vigor, and giving the plant ability to produce fruit of the largest size throughout the entire season. It stands at the front as a large, bright red, main crop sort. Pkt., 10c; oz., 25c; ¼ lb., 60c; 1 lb., \$2.25.



Stone. The heaviest and most solid fruited of the larger varieties.

Pkt., 5c; oz., 20c; ¼ lb., 60c; 1 lb., \$2.25.

Early Minnesota. Earliest of all, productive and of fine flavor.

Pkt., 5c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.50.

Dwarf Champion. A purple fruited variety, bushes two feet high and stand erect. Sometimes called the Tree Tomato. Pkt., 5c; oz., 30c; ¼ lb., \$1.00; 1 lb., \$3.00.

Ponderosa. A large sort, single specimens sometimes weighing 3 pounds and over. Pkt., 5c; oz., 30c; ¼ lb., \$1.00; 1 lb., \$3.50.

Acme. A red medium sized tomato, oval form. Pkt., 5c; oz., 20c; ¼ lb., 75c; 1 lb., \$2.50.

Golden Trophy. The best yellow sort; early, large and solid. Pkt., 5c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.50.

Livingstone's Perfection. It is larger than the Acme and the earliest market sort. Pkt., 5c; oz., 20c; ¼ lb., 60c; 1 lb., \$2.00.

Livingstone's Favorite. Large, perfect form, smooth skin, firm flesh. Pkt., 5c; oz., 20c; ¼ lb., 55c; 1 lb., \$1.90.

Yellow Plum. A small variety, extensively used for pickling. Pkt., 5c; oz., 20c; ¼ lb., 60c; 1 lb., \$2.00.

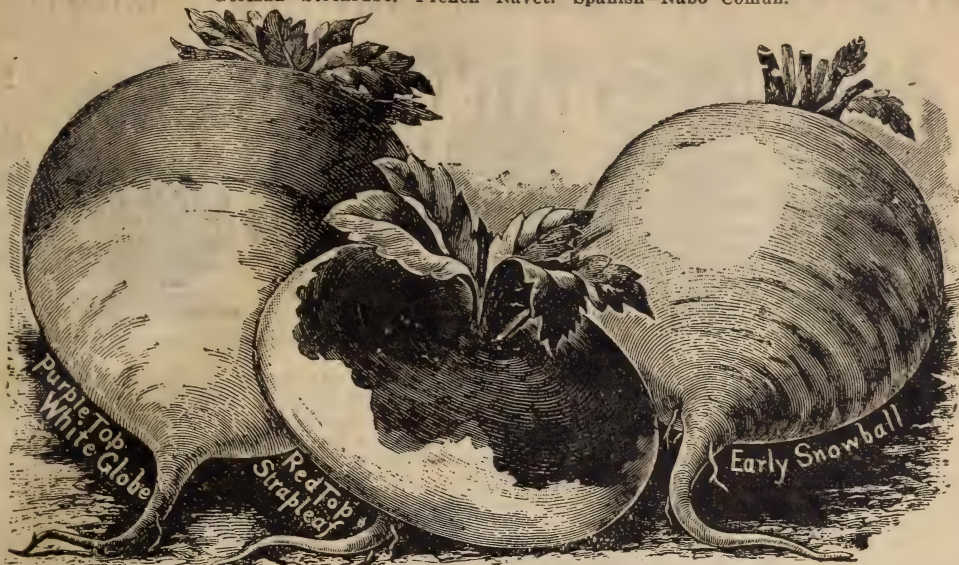
Red Cherry. A small cherry-shaped variety, red in color, principally used for pickling. Pkt., 5c; oz., 20c; ¼ lb., 60c; 1 lb., \$2.00.

Strawberry or Winter Cherry. Excellent for pickling. Is a good keeper on account of having a shell outside of the skin, which affords extra protection. Pkt., 5c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.50.



TURNIPS AND RUTABAGAS

German—Steckrube, French—Navet. Spanish—Nabo Comun.



Turnips may be sown at all seasons, from April to August in our climate, although those will be the best which are sown very early in the spring for summer crop, and early in August for a fall and winter crop. A light soil well manured the previous year, is the best; no manure should be applied at the time of sowing, unless it be well decomposed compost, or the roots are liable to be bad flavored. The Rutabaga varieties should be sown in drills fifteen inches apart, and for winter use may be sown from the twentieth of June to the middle of July, on land that has been well manured for other crops in spring; thin out as for the early crop. One ounce will sow 150 feet drill. Two pounds will sow 1 acre in drills. One pound will sow 1 acre broadcast.

Extra Early Purple Top Milan. A splendid new strap-leaved variety that is ready for use fully two weeks earlier than the Purple Top Strap-leaved, and one week ahead of the Purple Top Munich. The bulb is of medium size, quite flat, smooth and has a bright, fresh purple top. The flesh is pure white, solid, fine-grained and of the choicest quality. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 20 cts.; 1 lb., 70 cts.

Purple Top Strap Leaf. Tops small, bulb mostly above ground, of medium size and flat. Skin white below the surface and clear, bright purple above. Flesh white, sugary and remarkably well flavored. Very early, hardy and prolific. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 20 cts.; 1 lb., 50 cts.

Purple Top White Globe. The name of this most excellent variety affords for it a very accurate description. It is an early and a heavy cropper as well as a good keeper. The bulb is a very handsome globe, and is especially in demand among market gardeners. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 15 cts.; 1 lb., 50 cts.

White Six Weeks or Snow Ball. Bulb of medium size and spherical. Skin white and smooth. Immature flesh, fine grained, tender and sweet. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 20 cts.; 1 lb., 50 cts.

White Egg. Tops small and rough-leaved. Bulb oblong and produced mostly out of ground. Skin pure white and perfectly smooth. Flesh firm, sweet and mild. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 20 cts.; 1 lb., 65c.

Early White Flat Dutch. Bulb of medium size and flat. Skin pure white. One of the surest croppers of the early garden sorts. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 15 cts.; 1 lb., 45 cts.

Pomeranian White Globe. A large and most perfect globe in shape; skin white and smooth. Of strong growth and one of the most productive varieties. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 15 cts.; 1 lb., 45 cts.

Large Amber Globe. Flesh yellow, fine-grained and sweet; one of the best for table and stock. Skin yellow, with green top. Grows to a large size. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 20 cts.; 1 lb., 65 cts.

Long White or Cow Horn. The roots are shaped like a Carrot, about half of which is formed above ground; flesh white, fine grained and sweet. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 20 cts.; 1 lb., 60 cts.

Teltan, or Small Berlin. Very small, spindle-shaped roots; the rind has a peculiar flavor, and should not be taken off when used; esteemed for flavoring soups. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 25 cts.; 1 lb., 85c.

**RUTABAGA OR SWEDES.**

The Swedes are really preferable for stock feeding on account of their superior nutritive as well as better keeping qualities. Some of the finest are desirable and popular for table use also.

Wernich's Improved Purple Top. Tops very small. Bulbs large, having few, if any, roots. Skin deep purple above, bright yellow underneath. Flesh golden yellow, of fine texture, sweet and of richest flavor. Very hardy, unusually productive, and a good keeper; the principal variety being desirable for table use and stock feeding. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 20 cts.; 1 lb., 55 cts.

Bloomsdale Purple Top. A standard and productive sort. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 15 cts.; 1 lb., 45 cts.

Large White. Large and productive. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 20 cts.; 1 lb., 50 cts.

Yellow Swede. For table or stock use. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 20 cts.; 1 lb., 50 cts.

TOBACCO.

Burn a quantity of brush and rubbish in the spring on the ground intended for the seed-bed, then dig and thoroughly pulverize the earth and mix with the ashes, after which the seed may be sown and covered very lightly. When the plants are about six inches high, transplant into rows four or five feet apart each way, and cultivate thoroughly with plow and hoe.

Imported Havana. Best of all for the manufacture of cigars, but inclined to deteriorate; hence the necessity of renewing the seed each year. Pkt., 5 cts.; oz., 25 cts.; ¼ lb., 75 cts.; 1 lb., \$2.50.

Connecticut. Fine long leaf. Best adapted to the northern states. Pkt., 5 cts.; oz., 20 cts.; ¼ lb., 60 cts.; 1 lb., \$2.00.

Sumatra. It is this variety from which the famous Sumatra wrappers are made. Pkt., 10 cts.; oz., 50 cts.; ¼ lb., \$1.50; 1 lb., \$5.50.

AROMATIC, MEDICINAL AND POT HERBS.

Any
13 Pkgs.
for Fifty
Cents.



SWEET BASIL.



SAGE.



SWEET MARJORAM.



SUMMER SAVORY.



THYME.

All
26 Pkgs.
for One
Dollar.

An assortment of choice pot and sweet herbs should be grown in every garden for flavoring soups, meats, etc. Many country gardeners still grow the simple medicinal herbs for home use. Herbs in general prefer a cool, moist soil, making their most rapid growth during the cool spring months. Seeds of those varieties, the leaves of which are used either in a dried or green state, especially the perennial varieties, should be sown thinly in shallow drills as early in the spring as the soil can be dug in a fine, loose condition. When well started, the perennial varieties should be transplanted to regular beds or borders, setting plants twelve inches apart in the rows, and rows far enough apart to admit of easy cultivation. The annual varieties should also be sown early, making rows twelve to eighteen inches apart for those of which the leaves are dried and two feet apart for those raised for the ripened seed, such as Dill, Caraway, Coriander, etc.

To preserve the varieties, of which the leaves are used, the stems should be cut close to the ground just when coming into flower, tied in small bundles and hung up to dry in a cool loft or shed. For the varieties producing aromatic seeds cut off the tops or seed-heads as soon as ripened; spread thinly on floor of a cool loft or tie in bundles, seed to be threshed out and cleaned in the same manner as grain. The varieties marked with an asterisk (*) are perennial.

Anise (*Pimpinella anisum*). Used for cordial, garishing and flavoring; the seeds have an agreeable, aromatic taste. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 30 cts.; lb., \$1.00.

Balm (*Melissa officinalis*). The leaves have a fragrant odor, and are used for making a pleasant beverage, known as balm wine, also for balm tea, for use in fevers. Pkt., 5 cts.; oz., 30 cts.; ¼ lb., 90 cts.; lb., 3.00.

Basil, Sweet (*Ocimum basilicum*). The leaves are used for flavoring soups, stews and highly seasoned dishes. Pkt., 5 cts.; oz., 20 cts.; ¼ lb., 60 cts.; lb., \$2.00.

Borage (*Borago officinalis*). The leaves are used for flavoring, and the flowers furnish bee pasture; most easily grown in any waste place. Pkt., 5 cts.; oz., 15 cts.; ¼ lb., 50 cts.; lb., \$1.75.

Caraway (*Carum carui*). Grown for the seeds, which are used extensively for the flavoring of bread, pastry, etc. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 25 cts.; lb., 75 cts.

Catnip, or Catmint (*Nepeta cataria*). The leaves and young shoots are used for seasoning. It makes also, an excellent bee pasture. Pkt., 5 cts.; oz., 40 cts.; ¼ lb., 90 cts.; lb., \$3.25.

Chives. Used for seasoning. See page 14 for Seed.

Chamomile (*Matricaria chamomilla*). Used for tea. By many considered a household necessity. Pkt., 10 cts.; oz., 75 cts.; ¼ lb., \$2.50; 1 lb., \$9.00.

Coriander (*Coriandrum savitum*). The seeds are used in the manufacture of liquors and confectionery. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 25 cts.; lb., 75 cts.

Dill (*Anethum graveolens*). The seeds have an aromatic odor and warm, pungent taste. They are used as a condiment, and also for pickling with cucumbers. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 20 cts.; lb., 50 cts.

Fennel, Sweet (*Anethum foeniculum*). The leaves boiled are used in fish sauces. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 30 cts.; lb., \$1.00.

Hoarhound (*Marrubium vulgare*). The leaves are used for seasoning and also in the manufacture of the popular cough remedy. Pkt., 5 cts.; oz., 30 cts.; ¼ lb., \$1.00; lb., \$3.00.

Hyssop (*Hyssopus officinalis*). A hardy perennial with an aromatic flavor, and warm, pungent taste. It is a stimulant and expectorant and is used in asthma and chronic catarrh. The flowering summits and leaves are the parts used. It does best on a dry, sandy soil. The plants should be thinned to 12 inches apart. Pkt., 5 cts.; oz., 30 cts.; ¼ lb., \$1.00; lb., \$3.00.

Lavender (*Lavendula vera*). A hardy perennial, growing about two feet high. It is used for the distillation of lavender water, or dried and used to perfume linen. It does best in light, warm soil. It should be picked before it becomes dry and hard, and dried quickly. Pkt., 5 cts.; oz., 20 cts.; ¼ lb., 60 cts.; lb., \$2.00.

Majoram, Sweet (*Origanum marjoram*). The leaves and the ends of the shoots are esteemed for seasoning in summer, and also dried for winter use. Pkt., 5 cts.; oz., 15 cts.; ¼ lb., 40 cts.; lb., \$1.35.

Pennyroyal (*Mentha pulegium*). The true Pennyroyal is but little known. Pkt., 5 cts.; oz., 75 cts.; ¼ lb., \$2.50; lb., \$8.00.

Rosemary (*Rosmarinus officinalis*). The aromatic leaves are used for seasoning. Pkt., 5 cts.; oz., 20 cts.; ¼ lb., 75 cts.; lb., \$2.85.

Rue (*Ruta graveolens*). For medicinal purposes; good for fowls, for the croup. Pkt., 5 cts.; oz., 15 cts.; ¼ lb., 50 cts.; lb., \$1.75.

Saffron (*Carthamus tinctorius*). A hardy annual from Egypt. Cultivated for its flowers, which are used in dyeing, and to make the cosmetic powder called rouge. Pkt., 5 cts.; oz., 15 cts.; ¼ lb., 35 cts.; lb., \$1.25.

Sage (*Salvia officinalis*). The most extensively used of all herbs for seasoning and dressing; indispensable. Pkt., 5 cts.; oz., 15 cts.; ¼ lb., 40 cts.; lb., \$1.50.

Summer Savory (*Satureia hortensis*). The leaves and flowers are used extensively for flavoring, particularly in soups and dressings. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 30 cts.; lb., \$1.00.

Tansy (*Tanacetum vulgare*). A hardy perennial and grows wild in many parts of this country. The leaves, when green, have a peculiar, aromatic odor which they lose in drying. Cultivated for its medicinal properties. Pkt., 5 cts.; oz., 30 cts.; ¼ lb., \$1.00; lb., \$3.50.

Tarragon (*Artemisia dracunculus*). This herb is appreciated thoroughly by all who know it for the use of its aromatic leaves in seasoning or salads, also for Tarragon Vinegar. The foliage, if cut in autumn, can be kept in a dry state the same as other herbs. In the Northern States give some protection during winter. Pkt., 25 cts.; oz., \$5.00.

Thyme (*Thymus vulgaris*). This herb is perennial, and is both a medicinal and culinary plant. The young leaves and tops are used for soups, dressing and sauce; a tea is made from the leaves which is a great remedy in nervous headache. Sow as early as the ground will permit. Pkt., 5 cts.; oz., 20 cts.; ¼ lb., 60 cts.; lb., \$2.25.

Wormwood (*Artemisia absinthium*). A perennial plant of strong and fragrant odor, and aromatic, but intensely bitter taste. The leaves are used as a tonic and vermifuge and as a dressing for fresh bruises. Is raised from seed and propagated by cuttings, or dividing the roots. A dry poor soil is best adapted to bring out the peculiar virtues of this plant. Pkt., 5 cts.; oz., 25 cts.; ¼ lb., 75 cts.; lb., \$2.25.

Woodruff (*Asperula odorata*) Waldmeister. Must be sown in moist and shady places. It is used mostly for making May-wine and for this purpose is in great demand. Pkt., 10 cts.; oz., 50 cts.; ¼ lb., \$1.35; lb., \$5.25.

We deliver all Seeds offered on this page free to any Postoffice in the United States, in the United States.

SELECTED SEEDS FARM SEEDS

CHANGE YOUR SEED.

All practical farmers AGREE that seed grown year after year under the same conditions of soil and climate "RUNS OUT" after a time, rendering a change of seed not only DESIRABLE but NECESSARY. To such we offer NORTHERN GROWN STOCKS of the BEST VARIETIES, CAREFULLY SELECTED, THOROUGHLY RECLEANED and PRICES SO REASONABLE as to enable every farmer who wishes to get a new start in SEED OATS, BARLEY, CORN, ETC., to do so at a VERY SMALL EXPENSE.

BARLEY.

GENUINE BAVARIAN "HOFBRAU" BARLEY.

Two years ago we obtained from Bavaria, Germany, a bushel of the famous **Two-Rowed Bavarian Barley**, which weighed fifty-nine pounds. From this one bushel we obtained 29 bushels, which weighed 58 pounds to the bushel, though raised in the severe drought of 1901. From this seed we raised the present season nearly 500 bushels, which weighed from the machine 116 to 120 pounds to the bag. The kernels are very large and plump, and it weighs nearly as heavy as wheat. It is a very hardy variety, and has come through the present wet season with scarcely any discoloration. Prepaid, 25 cts.; 5 lbs., \$1.00. Not prepaid, peck, 60 cts.; bu., \$1.75; 2½ bu., \$4.00.

MANSHURY.

A six-rowed variety, plump kernels, straw long and a heavy yielder. Prepaid, lb., 25 cts.; 5 lbs., \$1.00. Not prepaid, peck, 40 cts.; bu., \$1.25; 2½ bu., \$3.00; 5 bu., \$5.50; 10 bu., \$10.50.

GERMAN MELON.

This barley was introduced by us some years ago and has given the best of satisfaction wherever grown. Brewers prefer this sort to all others. Prepaid, lb., 25 cts.; 5 lbs., \$1.00. Not prepaid, pk., 50 cts.; bu., \$1.50; 2½ bu., \$3.35; 5 bu., \$6.50; 10 bu., \$12.50.

SUCCESS OR BEARDLESS.

All barley growers have experienced the annoyance occasioned by the chafing and sticking of the beards while threshing. This nuisance has been overcome in the New Beardless Barley, which is entirely free from beards. This barley is six-rowed, the straw grows to a good height, is stiff and strong, and does not readily lodge. Prepaid, lb., 25 cts.; 5 lbs., \$1.00. Not prepaid, pk., 50 cts.; bu., \$1.25; 2½ bu., \$3.00; 5 bu., \$5.50; 10 bu., \$10.50.

GIANT WHITE HULLESS.

We are going to start out in the description of this barley by making this broad, sweeping statement, that it is the most prolific fat and health producing food for hogs, cattle and poultry extant today. Of course, the farmer living in the corn-growing states of Illinois, Iowa and Nebraska believes that he has a better food in corn than in this Giant White Hulless Barley but the fact of the matter is that this is a mere assumption, because he has not given this barley a trial side by side with his rich corn. But take, for instance, states where corn does not thrive, take the northern parts of Wisconsin, Minnesota, the Dakotas and Montana, and a great many other states where corn does not thrive as luxuriantly as in Iowa, Illinois, Indiana, Nebraska and Kansas, we say that in the above states Giant White Hulless Barley is pre-eminently the crop to grow for stock fattening. Prepaid, lb., 30 cts.; 5 lbs., \$1.25. Not prepaid, pk., 60 cts.; bu., \$1.85; 2½ bu., \$4.25; 5 bu., \$7.75; 10 bu., \$14.90.

SEED RYE.

SWEDISH SPRING.

Used mainly as a catch crop when other winter crops fail. Rye is a cereal that is very little sown compared with other grain. We cannot see why the farmers don't sow more. It always has a steady market price very seldom less than 55c per bu. and the yield from good seed will average 40 bu. per acre. Prepaid, lb., 25 cts.; 5 lbs., \$1.25. Not prepaid, pk., 40 cts.; bu., \$1.35; 2½ bu., \$3.25; 10 bu., \$12.50.

ST. JOHN'S RYE.

This is undoubtedly the Only Rye to Sow, especially as a catch crop. None so prolific in straw or kernels as our "Matchless St. Johns."

Can be Sown either in Spring or in Fall. The beauty of this Rye is that it can be sown early or late, it makes no difference, grow it will, wet or dry weather, and furnish abundance of Fodder. If your winter wheat or other winter crops prove a failure, we know of nothing that compares with St. John's Rye and by sowing it you will get:

1. If sown before the end of June, two large crops of hay.
2. Enough for pasturing your horses and cattle until late in the season.
3. In the spring it will come up thick, early and luxuriant.

4. Can then again be used as a pasturage or by letting it run to seed will yield 30 to 35 bushels of fine seed Rye. Sown with Oats and Sand Vetches as a catch crop you will have Fodder to burn. If sown alone sow 40 pounds to the acre.

Prepaid, lb., 30 cts.; 5 lbs., \$1.25. Not prepaid, pk., 50 cts.; bu., \$1.65; 2½ bu., \$3.75; 10 bu., \$13.50.



Barley.



It will pay you to renew your Seed Oats this year by sowing some of our improved varieties and thus greatly increase your yield.

FARM SEEDS,

CONTINUED.

RECLEANED SEED OATS.

DUPPAUER.

This Oats has stiff straw, stands up well, plump berries with a thin hull and of good color. It is extremely early and should be sown very early. It is full of fresh new blood and overflowing with vigor. Once sown it will grow from start to finish despite the elements. **Duppaer** planted side by side with other varieties out-yielded them two to one. It is a great stooler, one kernel producing 50 and more strong, stiff, healthy, vigorous stems. This accounts for the large crops Duppaer Oats will yield. It will pay you to sow Duppaer Oats. It will yield 80 to 100 bushels, whereas, perhaps your own seed only produces 50 bushels. Figure it out yourself and you must admit it pays to try this grand new sort. Prepaid, lb., 25 cts.; 5 lbs., \$1.00. Not prepaid, per peck, 40 cts.; bu., \$1.25; 2½ bu., \$3.00; 10 bu., \$11.50.

WHITE PROBSTIER.

(New Seed.) This we believe to be the best oats ever introduced, be it grown in the North, East, South or West. It has never been known to fail. Our stock this year is grown from new seed, imported two years ago and the seedling of which we gave our personal attention at the time. Prepaid, lb., 25 cts.; 5 lbs., \$1.00. Not prepaid, peck, 40 cts.; bu., \$1.00; 2½ bu., \$2.25; 10 bu., \$8.50.

YELLOW PROBSTIER.

Extremely hardy, makes a strong stool and grows with vigor and rapidity. Do not compare this oats with the variety known as Yellow French, which is a good oats but cannot compete with the Yellow Probstier for earliness, heaviness or production. It will grow anywhere, and being rust proof, will grow under all climatic conditions where oats will grow. Prepaid, lb., 25 cts.; 5 lbs., \$1.00. Not prepaid, peck 45 cts.; bu., \$1.15; 2½ bu., \$2.50; 10 bu., \$9.00.

BLACK PROBSTIER.

We believe that in this oats we have the best black oats sold for seed purposes. Unequaled in the stiffness or strength of the straw, nothing less than a tornado or a cyclone will lodge them. Prepaid, lb., 25 cts.; 5 lbs., \$1.00. Not prepaid, peck, 40 cts.; bu., \$1.15; 2½ bu., \$2.50; 10 bu., \$9.00.

FLAX.

(Price subject to Market Fluctuation.)

Most of the flax seed in this country is run out. Ours is new stock seed that is tip top. We exercise great care in the thorough cleansing of our seed so as to rid it of noxious seed. Prepaid, lb., 30 cts.; 5 lbs., \$1.25. Not prepaid, peck, 65 cts.; bu., \$1.95; 2½ bu., \$4.75.

BUCKWHEAT.

(Price subject to Market Fluctuation.)

Silver Hull. A very good and popular variety. Grain is of light gray color, is rounder than the common variety, has a much thinner husk, earlier, and yields more. The flour is whiter and more nutritious. Prepaid, lb., 25 cts.; 5 lbs., \$1.00. Not prepaid, peck, 40 cts.; bu., \$1.35; 2½ bu., \$3.25.

New Japanese. About a week earlier than Silver Hull, and yields almost as much again. The flour made from it is equal in quality to any other buckwheat, while it is much more productive than any other, and succeeds well far north. As the straw is heavier and it branches more, it does not need to be sown as thickly as the other kinds.

Largest kernels, most productive and earliest; stands up well and makes the best flour. Prepaid, lb., 25 cts.; 5 lbs., \$1.00. Not prepaid, peck, 45 cts.; bu., \$1.45; 2½ bu., \$3.35.

F. Goetze, Blooming, Oregon, writes: Two years ago I sowed 2 pounds of your Probstier Oats. This year I harvested 50 Bushels. It pays to get good Seed.

A. Feipel, Seels Crossroad, Ohio, writes: Your Probstier Oats have proven the best in this locality. I always get a better price than my neighbors.

C. Hecker, Cambria, Wis. Probstier Seed Oats was awarded "First Premium" at the Columbia County Fair,

SELECTED SEED GRAIN — Continued.

SEED WHEAT.

We are obliged to ask a considerable advance over the market price for our High Grade Seed Wheat as there is very much larger cost attached to its production and preparations than any one, who has not had the experience could possibly appreciate. Space does not permit of going into details, but as a matter of fact the prices named below for the larger quantities represent but a slight advance over the cash outlay to us for selecting, cleaning and grading the Seed.

We believe that farmers who want to change their seed will find it very much to their advantage to secure enough, at least, **to give them a start.**

To those who do not care for the pedigree, or highly improved stock, but want simply good, healthy, sound and reasonably clean wheat, we would state that we are in position at all times to select, from the hundreds of cars which daily arrive in Milwaukee, excellent lots of either Fife or Blue Stem, and which we will sell either in car or less than car lots, at a slight advance over the prevailing market price. Will be glad to send samples and prices upon application.

PROBSTIER.

This variety has all the characteristics of the Saskatchewan Fife from which it is descended by careful selections. It excels in earliness, hardness, productiveness and freedom from smut and all diseases. Our Grower reports that Probstier will average 40 to 50 bushels per acre. "Bald," Prepaid, lb., 25 cts.; 5 lbs., \$1.00. Not prepaid, peck, 50 cts.; bu., \$1.50; 2½ bu., \$3.40; 10 bu., \$13.60.

VELVET CHAFF BLUE STEM.

Northern grown, Pedigree stock. A distinct variety from all other Spring Wheats. The stem just below the head, when green, has a beautiful blue bloom on it which entirely disappears as the wheat ripens, the straw and stem assuming a beautiful golden yellow hue and entirely free from rust. Prepaid, lb., 25 cts.; 5 lbs., \$1.00. Not prepaid peck, 45 cts.; bu., \$1.45; 2½ bu., \$3.35; 10 bu., \$12.50.

SASKATCHEWAN FIFE.

Early, productive, and known as one of the best No. 1 milling wheat, noted for its great productiveness, earliness and freedom from smut. So well known that further description is unnecessary. Prepaid, lb., 30 cts.; 5 lbs., \$1.25. Not prepaid, peck, 60 cts.; bu., \$1.60; 2½ bu., \$3.50; 10 bu., \$13.50.

MACARONI WHEAT.

THE WHEAT FOR THE WEST.

Recommended by the U. S. Department of Agriculture. Send for Circular No. 18 describing this Wheat and its usefulness. The market for this Wheat will be a good one as the demand exceeds the supply. It is used principally in the manufacture of Macaroni. Macaroni manufacturers are ready to buy all that can be raised. About 15,000,000 lbs. of foreign Macaroni is imported annually solely because, being made from true Macaroni Wheat, it is considered to be a better quality than our domestic Macaroni, which is made almost entirely of bread wheats. Moreover the imported Macaroni sells at a much higher price. Of course all the cost of the imported product will be saved to this country if the farmers and millers will furnish our factories with the right kind of material, which they can easily do. Macaroni wheat will also make good bread; such bread-eating countries as Russia, France, Italy, Spain, Greece and the Mediterranean regions using it extensively. A small per cent. of softer wheat is usually mixed with the Macaroni wheat before grinding, however. It is the only wheat for our semi arid plains where heretofore the raising of wheat was almost an impossibility. It will grow anywhere, withstands drouth, is rust-proof and earlier than other wheats. The yield varies from 12 to 40 bushels per acre, depending on soil and climate. In this country Macaroni wheat should be sown in the spring, in all territory north of the thirty-fifth parallel. South of that latitude it should be sown October 15th to December 1st. Prepaid, lb., 20 cts.; 4 lbs., 75 cts.; not prepaid, lb., 10 cts.; pk., 65c; bu., \$2.25; 5 bu., \$10.50.

EMMER OR SPELTZ.

"What is it?" Neither barley nor wheat, yet it resembles both, and outyields barley, oats and wheat. Botanically it is known as Triticum Spelta and is supposed to be the grain grown in Egypt at the time of Moses. Ask your German neighbor, he has seen it grow in the old country and will tell you of its good qualities, both for milling as well as for feeding. It is a wonderful stooler and a robust grower and will do as well on poor as it will on rich soil. Prepaid, 1 lb., 25 cts.; 5 lbs., \$1.00. Not prepaid, peck, 50 cts.; bu., \$1.35; 2½ bu., \$3.25.

MACARONI W

H
E
A
T.R
U
S
S
I
A
N
S
P
E
L
T
ZN^o 1 SPELTZ

SELECTED SEED CORN.

NORTHERN GROWN.

The following varieties will mature a crop as far north as Corn will ripen under ordinary conditions. Our Seed Corn has all been subjected to a thorough test of its germinating qualities.

To Avoid Delay

when ordering late in season, it would be well to mention your second choice, in case we should be sold out of variety ordered.

YELLOW DENT VARIETIES.

Wernich's Earliest of All, "New."

Early. Smooth. Handsome. Hardy. Productive. Profitable.

Beyond a doubt the best corn ever introduced. It grows a medium sized stalk with a large ear of good length, 8 to 10 inches. The cob is small, the kernel smooth and very deep, thus ensuring large yield. The plant is vigorous, well supplied with foliage. It roots deeply, thus enabling it to withstand adverse conditions of weather. This variety is not an "Accident" but is the result of selecting and hybridizing with the object of producing an Extra Early, Large Eared and Large Yielding Yellow Dent Corn. This has been accomplished. Its record is ninety days of good corn weather from date of planting to maturity, and entirely out of frost danger. The past season it ripened about September 1st right here in Wisconsin. Our supply is limited, order early. Prepaid, qt., 35 cts. Not prepaid, qt., 20 cts.; peck, 75 cts.; bu., \$2.25; 5 bu., \$10.00.

King of the Earliest.

The earliest Dent Corn known, yields more and shells easier than any other variety. It will mature a crop further north than any other known variety. Short, leafy stalks, medium sized ears, small red cobs, and long, deep grains. Give it a trial and be convinced. Prepaid, qt., 25 cts. Not prepaid, qt., 10 cts.; pk., 50 cts.; bu., \$1.50; 5 bu., \$7.00.

Pride of the North.

This is undoubtedly the best known of the early Yellow Dents. Ears 8 to 10 inches in length and $1\frac{1}{2}$ inches in diameter. Kernels closely set, above medium size, long, narrow, thin, of deep orange color, shading to pale yellow at the tip. Cob very small and red. In a test, 70 lbs. of ears, not selected and but imperfectly dried, produced 60 $\frac{3}{4}$ lbs. of shelled corn and only 9 $\frac{1}{4}$ lbs. of cobs, instead of 14 lbs., the usual proportion. Stalks about medium height, 6 to 8 feet. Prepaid, qt., 25 cts. Not prepaid, qt., 10 cts.; pk., 50 cts.; bu., \$1.50; 5 bu., \$7.00.

White Cap Yellow Dent.

This now famous corn possesses the earliness of Pride of the North, and will produce a greater yield on thin, poor land, than any other corn. Grows about 6 to 7 feet in height, with abundant foliage and fine large ear. The tip ends of the grains are white, the inside yellow, making it of a beautiful color both when on cob and when shelled. It ripened and produced an enormous crop in the State of New York. Prepaid, qt., 25 cts. Not prepaid, qt., 10 cts.; peck, 50 cts.; bu., \$1.40; 5 bu., \$6.75.

Early Mastodon.

The largest of all yellow Dent varieties, maturing in 100 days. In the celebrated American Agriculturist Corn Contest, Mastodon Dent outyielded by far every other variety of Yellow Corn, 213 bushels of shelled corn being raised on one acre. Prepaid, qt., 25 cts. Not prepaid, qt., 10 cts.; pk., 50 cts.; bu., \$1.40; 5 bu., \$6.75.

Iowa Gold Mine.

It is early, ripening only a few days later than the Pride of the North; ears are of good size and symmetrical; color a bright golden yellow. Grain is very deep; cob small, and therefore dries out very quickly as soon as ripe. Prepaid, qt., 25 cts. Not prepaid, qt., 10 cts.; peck, 50 cts.; bu., \$1.40; 5 bu., \$6.75.

YELLOW FLINT VARIETIES.

Wernich's Ten Weeks.

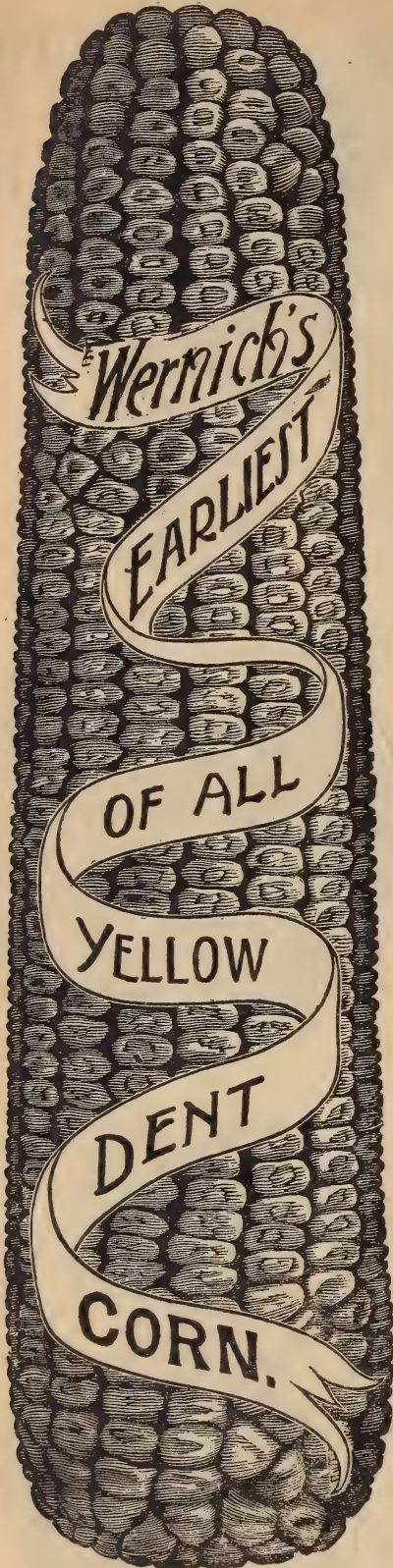
We consider this the best strain of hard-grained, eight rowed yellow Flint Corn in Cultivation. Under favorable conditions, matures in about eighty days, and while not so productive as the varieties of Dent Corn, is valuable for the short seasons of the far North, and also for second planting. Ear is perfectly formed. Prepaid, qt., 30 cts. Not prepaid, qt., 15 cts.; pk., 60 cts.; bu., \$1.65; 5 bu., \$7.50.

Longfellow Flint.

An eight-rowed yellow flint variety, with ears from 10 to 15 inches long, $1\frac{1}{2}$ to $2\frac{1}{2}$ inches in diameter, and are well filled out to the extreme end of the cob. The cob is small and the kernel large and broad. Prepaid, qt., 25 cts. Not prepaid, qt., 10 cts.; pk., 50 cts.; bu., \$1.55; 5 bu., \$7.25.

Angel of Midnight.

Stalks are of medium size, ears 10 to 12 inches in length and rows even. Prepaid, qt., 25 cts. Not prepaid, qt., 10 cts.; pk., 50 cts.; bu., \$1.55; 5 bu., \$7.25.



It costs less than 25c an acre to use our carefully selected and tested Seed Corn.

SELECTED SEED CORN.

NORTHERN GROWN.

Remember, our Corn is northern grown, fire-dried and hand picked. Our prices may be higher than those of other Dealers, but ours is not Crib Corn. Why plant seed of uncertain vitality when

A FEW CENTS

per Acre expended for Good Corn will increase the crop from 20 to 50 per cent. It pays to buy new seed every year.

WHITE DENT VARIETIES.

Adam's Extra Early.

Hardest and earliest corn known. Can be planted earlier than any other corn. Most seed dealers sell it as a sweet corn on account of its extreme earliness, combined with its sweetness and tender qualities for table use. It is an immense yielder and under favorable circumstances ripens in 60 days. Sets ears fit to eat in 50 days. Prepaid, qt., 30 cts. Not prepaid, qt., 15 cts.; peck, 75 cts.; bu., \$2.50; 5 bu., \$10.00.

Wernich's Sweet White Pearl.

Grown in the far North especially for our trade. By far the best White Dent in cultivation. We have sold this corn for the past twelve years and have yet to hear the first complaint. It has all the characteristics of the Champion White Pearl, the well known White Dent variety, but is earlier in maturing and contains more nutritious food than the Champion. In yield it surpasses anything known as corn. Those who have planted it in the past think so well of it that the new varieties constantly coming out year after year have no fascination for them, being firmly convinced that Wernich's Sweet White Pearl is the earliest and purest of all the White Dents now sold by seed dealers. "Do give it a trial." Prepaid, qt., 35 cts. Not prepaid, qt., 20 cts.; pk., 75 cts.; bu., \$2.15; 5 bu., \$10.00.

Champion White Pearl.

Matures in 100 days. A beauty, and in every respect a first-class white sure cropping corn. Prepaid, qt., 25 cts. Not Prepaid, qt., 10 cts.; pk., 50 cts.; bu., \$1.50; 5 bu., \$7.00.

Mammoth White Dent.

This is a large eared variety. It has a broad, very deep, pure white kernel and cob—in fact, a stray red cob will hardly be found in a thousand bushels, and those desiring a large white corn cannot fail to be pleased with it. Prepaid, qt., 25 cts. Not prepaid, qt., 10 cts.; pk., 50 cts.; bu., \$1.65; 5 bu., \$7.50.

Wisconsin White Dent.

Considered by many the best white Dent corn for the North. It cannot, however, compare with Wernich's Sweet White Pearl. Prepaid, qt., 25 cts. Not prepaid, qt., 10 cts.; pk., 50 cts.; bu., \$1.50; 5 bu., \$7.00.

Iowa Silver Mine.

The largest yielding variety in existence. Yields big crops everywhere. Ears 10 to 12 in. long; 16 to 20 rowed, uniform in size, with small cob. A great drouth resister. Prepaid, qt., 25 cts. Not prepaid, qt., 10 cts.; peck, 50 cts.; bu., \$1.50; 5 bu., \$7.00.

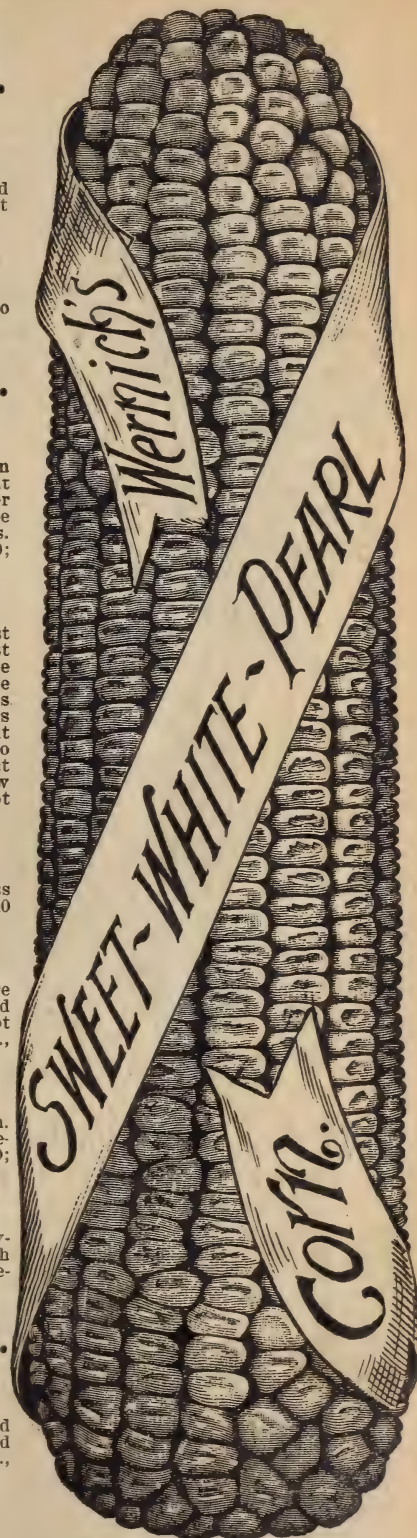
WHITE FLINT VARIETIES.

Wisconsin Silver.

Early. An 8 to 10 rowed white flint corn; long, well shaped ears; small cob. Stalks bear from 2 to 3 ears, small kernels, hard and compactly placed on cob. Prepaid, qt., 25 cts. Not prepaid, qt., 10 cts.; pk., 50 cts.; bu., \$1.55; 5 bu., \$7.25.

Connecticut White.

An eight-rowed white flint variety with ears from 15 to 18 inches long, 1½ to 2¼ inches in diameter, and are well filled out to extreme end of cob. The cob is small and the kernels large and broad, ripens in 75 to 85 days. Has given excellent results in northern states. Excellent for ensilage and is often used here for replanting. Prepaid, qt., 25 cts. Not prepaid, qt., 10 cts.; pk., 50 cts.; bu., \$1.50; 5 bu., \$7.00.



Do you deem it wise to risk doubtful corn when good Seed is so cheap?

FODDER CORN.

Wherever Live Stock is an important feature of the farm, Fodder Corn is equally important. The best Fodder Corn is that which will give the greatest net amount of good feed from an acre of ground. The varieties we list are all good, each possessing certain distinctive points of excellence which we endeavor to point out in the description.

EVERGREEN SWEET FODDER CORN.

It is an undeniable fact that there is better feeding quality in one ton of Evergreen Sweet Fodder Corn than in a much larger quantity of any other variety. The reason is evident, from the fact that all sweet corn possesses very much more sugar than the field sorts, and as sugar is the most important constituent, it necessarily follows that the corn possessing this in greatest quantity is most valuable. It does not, however, yield as large crops as the preceding kind, but what it lacks in quantity it more than makes up in quality. It does not grow very tall, but it is a free stouter. Cattle eat it greedily, preferring it to all other kinds. Prepaid, qt., 25c. Not prepaid, qt., 15c; pk., 50c; bu., \$1.50; 5 bu., \$7.25.

RED COB ENSILAGE CORN.

A well-known Fodder Corn, producing enormous crops. More seed of this variety sold every year than of all other Fodder varieties put together. Prepaid, qt., 20c. Not prepaid, qt., 8c; pk., 25c; bu., 80c; 10 bu., \$7.50.

PRIDE OF THE NORTH FODDER CORN.

Used extensively in all corn growing sections and considered the best early ripe Fodder Corn known. It stools freely and every stalk produces two to four ears. We sell this corn cheap. Prepaid, qt., 20c. Not prepaid, qt., 8c; pk., 30c; bu., 95c; 10 bu., \$9.00.



Evergreen Sweet Fodder Corn.

IN
ILLINOIS.

Kewanee, Ill.

Gentlemen:

From the 1 qt. Brazilian Flour Corn bought of you I harvested 14 bushel, which certainly is a remarkable crop.

Ernst Spiegel.



IN
MICHIGAN.

St. Clair Heights,
Mich.

Gentlemen:

From 16 kernels Brazilian Flour Corn planted last year I harvested 1/2 bushel Corn. This beats all local records.

Christ Feldmann.

BRAZILIAN FLOUR CORN

20 STALKS HAVE GROWN FROM ONE KERNEL
5 EARS EACH STALK. J.F. PRINTER MILWAUKEE
REPORTS: "A PECK SEED YIELDED CROPPED FARM
FOR 30 CATTLE FOR 2 WEEKS. STANDING ON
ONE SPOT I CUT ENOUGH FOR ONE FEED FOR 20 HEAD
PKG. 10¢. PT. 20¢. QT. PST PAID 30¢."

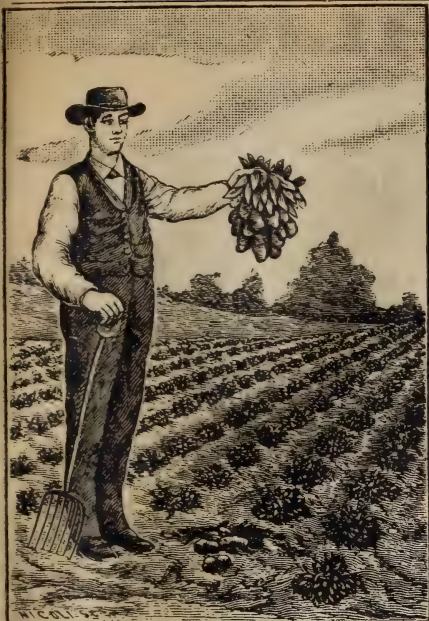
BRAZILIAN FLOUR OR NEW CENTURY WONDER CORN.

A most wonderful variety from South America, different in many respects from other sorts. Instead of growing like ordinary corn, one stalk to each kernel planted, it stools like winter wheat, producing 10 to 20 stalks from each seed. There are frequently 3 to 7 ears to the stalk, being 8 to 10 inches long, and of the most clear snowy white color. It is of excellent quality when used on the table like sweet corn, yielding, of course, a much larger crop, and when dry and ground makes the cleanest, finest, whitest meal you ever saw. It will rise like wheat flour and can be used in bread, biscuits, pies and cakes, and is therefore sometimes called Flour Corn. Yields 100 to 160 bushels per acre. The IOWA STATE REGISTER in its Farm Department says:—"This wonderful corn which was grown about four miles northwest of Des Moines grows 10 to 12 feet high, produces 3 to 7 ears on a stalk and 10 to 20 stalks to the hill from one seed planted. The ears are about 9 inches long and it yielded 75 bushels on half an acre. It makes the finest of stock food when cut for fodder and produces many times as much as ordinary corn." We believe this corn will prove of great value everywhere for use as sweet corn, to grind into meal, to feed hogs, cattle and horses and as a fodder plant.

A COMPARISON.—A crop of wheat is considered a fair yield if it produces ten-fold or ten bushels to each bushel sown. The New Century Wonder is not satisfied with ten-fold, a hundred-fold, a thousand-fold or ten thousand-fold, but it is claimed that in a field you can find hills grown from one kernel which bear 20,000 to 40,000 kernels. Of course the entire crop will not average that, but it is wonderful, just think of it, 40,000 to 1. Prepaid, qt., 20c; qt., 30c. Not prepaid, pt., 10c; qt., 15c; 1/2 pk., 30c; pk., 50c; bu., \$2.50; 5 bu., \$11.75.



Brazilian Flour.



A Hill of Six Weeks Potatoes

NORTHERN GROWN SEED POTATOES

IT PAYS TO CHANGE SEED EVERY YEAR.

The necessity for changing Potato Seed often is universally admitted by all well posted growers, but too seldom practiced, especially when the best seed can be had at so little additional outlay. About 8 bushels will seed an acre and at 25 cts. to 50 cts. per bushel additional cost the whole outlay would be \$2.00 to \$4.00, with an increase in the crop of at least 25 per cent. By using our **Northern Grown Seed** you are assured of **early maturity, increasing yield and a vigorous growth.**

EARLY ORDERS.

Everything points in the direction of a lively demand for Choice Seed Potatoes the coming season, and, while we have a good stock in store at present, we would advise customers to send in orders early.

OUR PRICES.

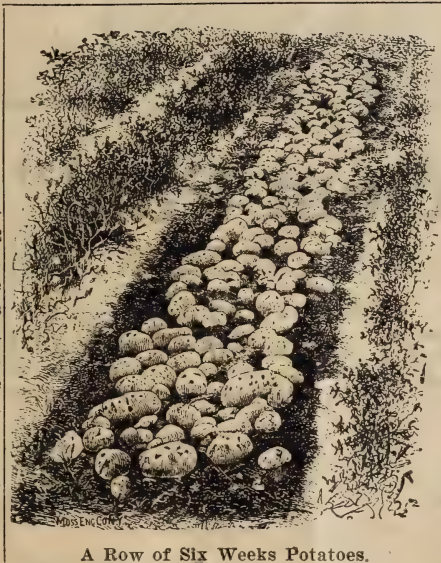
The following prices are for **good, straight, unmixed stock**, but if you receive lower quotations before placing your order, write us stating what you want, and we will bid for your order.

SPECIAL INSTRUCTIONS.

We will book orders at the following prices as long as our present stock lasts, no matter if there should be an advance in the market. We fill orders just as soon as the weather, in our judgment, will permit. However, we cannot become responsible for changes in the weather by which they might become damaged en route. We will ship at any time when requested to do so, regardless of weather, **if customers wish to take their own risk.** When ordering late, please state whether we shall return the money or send some other kind of equal value providing we cannot supply the sort you order.

EXTRA EARLY OHIO.

An old favorite and the standard extra early, maturing 2 weeks ahead of the Early Rose. It is without doubt one of the most popular early potatoes known. A good yielder and "A Sure Early" of all the Earlies. Demand always larger than the supply. Gives satisfaction in all parts of the country. Prepaid, lb., 25c; 5 lbs., \$1.00; not prepaid, peck, 50c; bu., \$1.50; bbl., \$3.75; 2 bbl., \$7.25.



A Row of Six Weeks Potatoes.

EARLY SIX WEEKS.

Without exception the earliest potato in existence, and the most popular of Early Potatoes on account of its reliability under all conditions. Medium size, smooth, oblong; skin pink, flesh white, tubers grow close together in the hill and grow so rapidly that under favorable circumstances they are fit for table use in **six weeks from the time of planting**, and mature in ten or eleven weeks. It is by far the best selling Seed Potato we list. Prepaid, lb., 25c; 5 lbs., \$1.00; not prepaid, pk, 50c; bu., \$1.60; bbl., \$3.75; 2 bbls., \$7.25.

EARLY SUNRISE.

An old standard variety. Supply is limited. Peck, 50c; bu., \$1.40; bbl., \$3.50; 2 bbls., \$6.75.

EARLY ROSE.

Now is the chance to stock up with this prime favorite. It is well known for earliness and general excellence. Prepaid, lb. 25c; 5 lbs., \$1.00; not prepaid, pk., 50c; bu., \$1.50; bbl., \$3.75; 2 bbls., \$7.25.

BLISS EARLY TRIUMPH.

Has all the good qualities of the Early Rose, is much more productive, and matures its crop at least a week in advance of the Early Rose. Tubers are of medium size, round and uniform in shape, with but a very few small ones; eyes slightly depressed; color a beautiful light red. Prepaid, lb., 25c; 5 lbs., \$1.00; not prepaid, pk., 50c; bu., \$1.50; bbl., \$3.75; 2 bbls., \$7.25.

PRIDE OF THE SOUTH.

A white sort of the Extra Early Red Triumph. It is a strong, quick grower. In ripening the vines die down all at once, thus giving the blight which works down into the potatoes through the vine no chance to work. Prepaid, lb., 25c; 5 lbs., \$1.00; not prepaid, pk., 50c; bu., \$1.60; bbl., \$3.75; 2 bbls., \$7.25.



Full Grown Six Weeks Potatoes.

Our NEW POTATO "NORTHLIGHT"

A
Splendid
New
Medium
Late
Potato
for
Main
Crop.



A
Smooth
Red
Potato.
Good
Shape
and
Flavor.

OUR 1902 "INTRODUCTION."

Never before did we offer any Potato that met with such favor as this variety did, as the testimonials in our files will prove. A few of which we give here. We own the entire crop and have several hundred bushels to sell. **Order Early.**

DESCRIPTION.

Northlight is a late Potato, destined to become the most popular of the newer varieties, and certainly one of the most worthy. Yields great crops of even, fine, smooth, large Potatoes under the most unfavorable circumstances. The eyes are even with the surface, the skin a deep red and the flesh a clear white and very solid. This Potato will astonish old Potato Growers in its remarkable yields and fine qualities, and every person, who is ambitious to make the most money out of his crop cannot afford to let this year pass without obtaining Seed of our crop of Northlight Potatoes. Prepaid, lb., 30c; 3 lbs., 75c; not prepaid, pk., 80c; bu., \$2.25; bbl., \$4.75.

T. Drake, Tyler, Minn., writes:
From the 1 lb. Northlight Potatoes
I harvested 1 Bushel nice large
Potatoes.

C. F. Wittnebel, Allen, Neb.,
writes: Northlight is the best late
Potato I ever planted.

Oom Paul Potato

The Greatest
Grandest and
Most Productive
Main-Crop
Potato EVER
OFFERED.....

TRY IT

AND BE CONVINCED.

"Oom Paul" Potato.

In appearance it resembles the old "Thorburn" but is later and blooms more freely. Under favorable conditions it will yield on an average 9 pounds to a hill.

THIS MEANS AN AVERAGE CROP OF
750 BUSHELS TO THE ACRE, 750
UNDER FAVORABLE CIRCUMSTANCES.
"JUST THINK OF IT!"

The vines are vigorous, stout and erect; strong robust tops, with plentiful foliage of dark green leaves, withstanding drought, extreme heat, and attacks of insects better than any other variety; perfectly free of disease, such as scab or blight. The tubers are oblong, round form; eyes plentiful. Has a handsome appearance, color white, slightly tinged with pink. Flesh white and floury. It cooks finely and quickly with a delicious flavor. Skin is firm and dry. Size large to very large. Medium late. Prepaid, lb., 25c; 5 lbs., \$1.00; not prepaid, pk., 50c; bu., \$1.50; bbl., \$3.50; 2 bbls., \$6.50.

ARKANSAS.

Paris, Texas.
Your Seed Potatoes can always
be relied upon, drouth or no
drouth.

IGNATZ FRITZ.

MISSOURI.

Haman, Mo.
Last years Seed Potatoes
proved your Seed better than any
I ever had.

C. VOIGT.

OREGON.

Milton, Oreg.
Potatoes bought of you have
astonished my neighbors, which
means more customers.

CHRIST HELLBERG.

RURAL NEW YORKER

(Late.) Originated by E. S. Carman, Editor-in-Chief of The Rural New Yorker. Very large and unusually smooth, with few eyes, of oblong form; flesh white and of superior quality. Vines strong, and yield very large. This Potato is to the late varieties what Ohio's are to the Earlies, viz: The standard market variety. Prepaid, lb., 25c; 5 lbs., \$1.00; not prepaid, pk., 40c; bu., \$1.25; bbl., \$2.75; 2 bbls., \$5.25.



CARMAN No 3.

It is of perfect form, almost every potato being of same size and shape, and averaging nearly one pound each in weight, in good seasons. It has but a few eyes and they are shallow; the skin and flesh are extremely white and its cooking qualities are very fine. It is enormously prolific and keeps well. Prepaid, lb., 25c; 5 lbs., \$1.00; not prepaid, pk., 50c; bu., \$1.25; bbl., \$3.25; 2 bbls., \$6.25.

Root Crops

FOR FEEDING STOCK.

Root Crops for Stock Feeding cannot be overestimated. The results from their use are wonderful, as is clearly shown in the improved health and condition of animals increased yield of milk in cows, and great saving in hay.

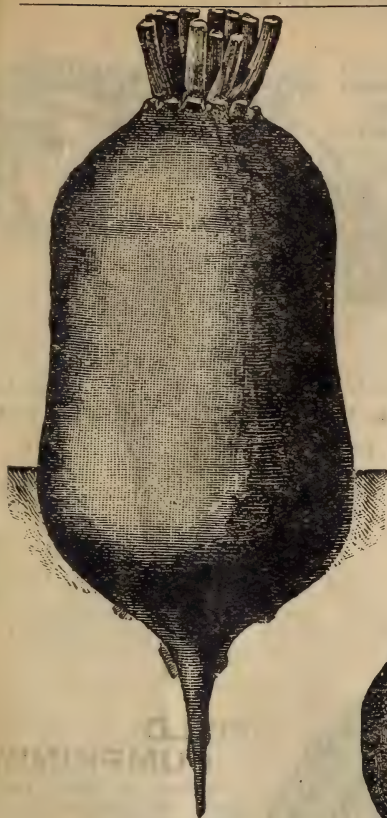
MANGEL WURZEL.

The value of Mangels for stock raising cannot be overestimated, analysis having demonstrated that 400 pounds of Mangel are equivalent to 100 pounds of the best hay. Crop of 1000 to 1500 bushels is nothing unusual. They will not only increase the yield of milk, but add largely to the health and general condition of all kinds of stock.

We have a large trade on Mangel Seed, and are careful to see that our stocks are of the finest strains that money will buy. Our prices are higher, 'tis true, but you are getting Seed that tests 98 per cent. Undoubtedly your local merchant has seed that you can buy for 10 and 15 cts. a pound. We warn you to be careful in sowing such truck. Sow only Wernich's Tested Mangel and you will be satisfied.

Eckendorfer Red.

This is an enormously productive variety, yielding from 50 to 70 tons to the acre, a single root often weighing from 20 to 30 lbs. It is the best red Mangel and of the greatest value for stock feeding. They grow well above ground and are easily pulled. Prepaid, oz. 5c, ¼ lb. 15c, lb. 45c; not prepaid, lb. 35c, 5 lbs. \$1.50, 10 lbs. \$2.50.



Eckendorfer.

Eckendorfer Yellow.

Very large. Remarkably even in shape, of vigorous growth; has a very smooth skin. Flesh white, firm and sweet, much liked by cattle. Easily lifted from the ground, producing enormous crops. Excellent keeper, yields 40 to 60 tons per acre. Prepaid, oz. 5c, ¼ lb. 15c, lb. 45c; not prepaid, 1 lb. 35c, 5 lbs. \$1.50, 10 lbs. \$2.50.



Obendorfer.

Obendorfer Golden.

This is the production of one of the largest Mangel specialists of Europe. It is thought by many to be the most profitable of all Mangels, and is exceedingly popular in those sections where it is best known. Firm, round. Skin is yellow and smooth; flesh white and very firm. Prepaid, oz. 5c, ¼ lb. 15c, lb. 45c; not prepaid, 1 lb. 35c, 5 lbs. \$1.50, 10 lbs. \$2.50.

Golden Tankard.

We have for years insisted that this was the best Mangel grown, and each season strengthens us in the position we took when it was a comparatively unknown sort. We recommend it as the best Mangel by far for dairy farmers. Prepaid, oz. 5c, ¼ lb. 15c, lb. 35c; not prepaid lb. 25c, 5 lbs. \$1.10, 10 lbs. \$2.00.

Leutowitzer Red.

This is an improvement on the old Mammoth Long Red Mangel. The roots are very large, uniformly straight and well formed. Color deep red; roots solid; tops small. Roots attain a large size. Produce an immense bulk and tonnage. Prepaid, oz. 5c, ¼ lb. 15c, lb. 35c; not prepaid, lb. 25c, 5 lbs. \$1.10, 10 lbs. \$2.00.

Long Red.

The old Red Mangel. Prepaid, oz. 5c, ¼ lb. 10c, lb. 30c; not prepaid, 1 lb. 20c, 5 lbs. 85c, 10 lbs. \$1.60.

TURNIPS AND RUTABAGAS.

Invaluable as a farm crop, for feeding cattle during the fall and winter months producing under good cultivation 1000 bushels per acre. Roots should be stored in barns, or pits as soon as freezing weather sets in and used as wanted during the winter. Sow in drills two feet apart at the rate of 2 lbs. per acre and thin out to 8 inches apart.

TURNIPS.

Purple Top White Globe. Early and productive. Prepaid, pkg. 5c, oz. 10c, ¼ lb. 15c, lb. 50c; not prepaid, lb. 40c, 5 lbs. \$1.90, 10 lbs. \$3.50.

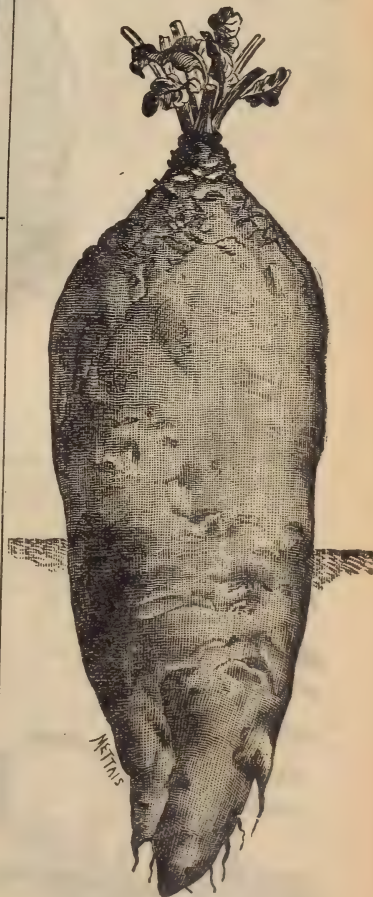
Pomeranian White Globe. The largest variety, very often obtaining a weight of 12 lbs. in rich soil, besides being very productive. Prepaid, pkg. 5c, oz. 10c, ¼ lb. 15c, 1 lb. 45c; not prepaid, lb. 35c, 5 lbs. \$1.45, 10 lbs. \$2.80.

RUTABAGAS.

Wernich's Improved Purple Top. Yields heavily, good for either table or stock. Prepaid, pkg. 5c, oz. 10c, ¼ lb. 20c, lb. 55c; not prepaid, lb. 45c, 5 lbs. \$2.10, 10 lbs. \$3.80.

Yellow Swede. A yellow variety. Cattle are fond of it. Prepaid, pkg. 5c, oz. 10c, ¼ lb. 20c, 1 lb. 50c; not prepaid, lb. 40c, 5 lbs. \$1.90, 10 lbs. \$3.50.

Sweet German. Productive and of the highest qualities. Prepaid, pkg. 5c, oz. 10c, ¼ lb. 20c, 1 lb. 50c; not prepaid, lb. 40c, 5 lbs. \$1.90, 10 lbs. \$3.50.



Leutowitzer.

Root Crops.—Continued.

SUGAR BEETS.

Considering that we are the largest consumers of sugar in the world and our soil and climate are as favorable as any to the growth of the Sugar Beet, it is hardly thrifty for us to send abroad one million dollars annually to pay for sugar which we might produce so profitable at home.

Every farmer should therefore give attention to this subject and try small areas of sugar beet, and at the proper time send some of the roots to his nearest experiment station, which will be glad to analyze them without charge.

For stock feeding experience has proven that Sugar Beets as well as Mangel Wurzel are healthful, nutritious and economical.

Improved Kleinwanzlebener. This variety at the present time has probably a wider cultivation than any other sugar beet. Our strain is of the very best, an improvement over the old Wanzlebener. "Floto," the grower and originator of the Improved Kleinwanzlebener, is a well known grower and considered an expert, many of the leading Beet Sugar Refineries getting their seed from him. Prepaid, oz. 5c, $\frac{1}{4}$ lb. 15c, lb. 40c; not prepaid, 1 lb. 30c, 5 lbs. \$1.40, 10 lbs. \$2.25, 100 lbs. \$19.00.

Vilmorin. This beet is the result of thirty-five years of methodic and persevering selection. Its average yield may be stated as from 12 to 16 tons per acre. Prepaid, oz. 5c, $\frac{1}{4}$ lb. 15c, lb. 40c; not prepaid, 1 lb. 30c, 5 lbs. \$1.35, 10 lbs. \$2.15, 100 lbs. \$18.00.

PEANUTS.

Are eaten by hogs and poultry and the cattle readily eat the straw. Plow thoroughly and harrow finely. Plant Peanuts 12 inches apart in the row, and have the rows far enough apart to allow cultivating. As soon as ripe, turn hogs into the field and they will help themselves. Prepaid, pt. 13c, qt. 20c; not prepaid, pt. 10c, qt. 15c, 5 qts. 65c, 16 qts. \$1.60, 32 qts. \$2.85.

J. Blum, Wisconsin, writes: Send Catalogue for 1903. Your Seeds have given better satisfaction than any I ever had. Want only Wernich's Seeds hereafter.



FIELD PUMPKINS.

Similar to other root crops in feeding value. Usually grown in corn or potato fields.

Wernich's Mammoth Giant. Good for table use or feeding stock. Grows to an immense size, sometimes three feet in length and to a weight of 100 to 200 lbs.

Prepaid, lb., \$1.15, 5 lbs. \$5.00; not prepaid, lb. \$1.05, 5 lbs. \$4.50.

Connecticut Field. The well known Cow Pumpkin. Prepaid, lb. 35c, 5 lbs. \$1.50; not prepaid, lb. 25c, 5 lbs. \$1.00.

40 tons
Forage
per acre

15 to 20
Tons Beets
per
Acre.

12 to 15
PER CENT
OF
SUGAR.



CARROTS.

A well known stock raiser writes as follows regarding carrots for stock: "No one who feeds stock can afford to be without Carrots. I feed each year Mangel Wurzel and Rutabaga, and regard them very highly; but carrots I consider indispensable."

Mastodon. The Carrot for feeding stock. Grow to an enormous size. Yield tremendous crops. Prepaid, $\frac{1}{4}$ lb. 30c; lb. 90c; 5 lbs., \$3.75. Not prepaid, lb. 80c; 5 lbs., \$3.25.

Improved Long Orange. This is a heavy cropper on all soil, but especially adapted for strong or rich land. Prepaid, lb., 65c; 5 lbs., \$2.65. Not prepaid, lb., 55c; 5 lbs., \$2.15.

Large White Belgian. This variety is amazingly productive, and nothing can equal them as a winter feed for milch cows. Prepaid, lb., 55c; 5 lbs., \$2.50. Not prepaid, lb., 45c; 5 lbs., \$2.00.

For other varieties see page 13, Vegetable Seed Dept.

ARTICHOKES.

On good land, with same culture as corn, Artichokes will produce from 400 to 1,000 bu. per acre. A. C. Williams, of Iowa, a very prominent breeder of Poland Chinas, says: "Forty head of hogs and pigs may be kept without other food on an acre of Artichokes from the time frost is out of the ground until they grow again, and from October 1st until the ground freezes again. They produce more hog food per acre than any other crop I am acquainted with, and the hogs will harvest the crop themselves. Artichokes also produce immense quantity of tops, of which cattle, horses and mules are very fond, and which makes excellent food when properly cured. A chemical analysis of roots shows them to be superior to Carrots, Parsnips, Mangels, Sugar Beets and Turnips, both as flesh and fat formers."

Artichokes need planting but once, and little or no culture after the first year. Cut as potatoes, only smaller; plant in rows $3\frac{1}{2}$ feet apart. Plow deep, plant shallow, say 2 inches; the second year, break up the ground as for corn; will come up thick all over the surface. Run through each way with a cultivator when a few inches high. Prepaid, lb., 25c; 3 lbs., 60c. Not prepaid, pk., 50c; 1 bu., \$1.50; bbl., \$3.00; 10 bu., \$13.50.



SAND OR HAIRY VETCH

15 TONS FORAGE ACRE PER GREEN

50 DAYS FROM PLANTING



SAND OR HAIRY VETCH.

Viola Villosa. The Wonderful.

This plant is a native of Russia and extremely hardy, growing well during the cool weather of our early spring and late fall months. The plants are quite small and slender at first, but with sufficient moisture soon grow vigorously. It is excellent for forage, being readily eaten by all kinds of stock, either in the green state or cured for hay. The plant is of strong, running growth, with very abundant foliage, and if wanted for hay should be slowly dried in cocks to prevent the leaves from falling off. A nice hog pasture can be produced in a few months by making a sowing of these Vetches early in April. Sowings made in August or September withstand easily our Northwestern winters and will furnish a handsome crop of green fodder by the end of April, which, on good land, has equalled **15 tons green forage per acre**. It is especially adapted for light, sandy soils and exposed hills, making an excellent cover crop to prevent the soil from washing during heavy rains, but does not succeed well in low, wet soils. The plant is a **legume** or nitrogen gatherer, and one of the best to plow under to enrich the soil.

Wernich's Continuous

Fodder Mixture.

Farmer, Dairyman or Stock-raiser. Mixture is composed of Oats, St. John's Rye and Vetches. It can be sown at intervals which will furnish a continuous supply of fodder throughout the season. Invaluable as a catch crop after Winter Grain has been cut, there is nothing that will produce such crops of fodder as "Wernich's Continuous Fodder Mixture." In many instances Field Peas are sown along with this mixture. Sow 40 to 50 lbs. per acre. 1 lb., 10c; 5 lbs., 30c; 10 lbs., 50c; 25 lbs., \$1.00; 50 lbs., \$1.65; 100 lbs., \$3.00.



Field of Continuous Fodder Mixture.

50 Lbs. to Bushel, Except where Noted.

MILLETS.

Sacks Extra, 15c. Each.

Hog Millet.—A valuable variety, maturing at the same time as Hungarian Grass, producing a very heavy yield even in the driest season. At the Michigan Experiment Station trials this proved to be an excellent sort, showing no sign at all of being affected by drouth. While recommending it for all sections, its highest comparative value will, of course be found in those areas where corn cannot be safely or cheaply grown. Prepaid, lb., 15c; not prepaid, lb., 5c; 5 lbs., 20c; 10 lbs., 40c; bu., \$1.35; 100 lbs., \$2.50.

Common Millet. Very early, grows 3 to 4 feet high. Prepaid, lb., 15c; not prepaid, lb., 5c; 5 lbs., 15c; 10 lbs., 25c; bu., 80c; 100 lbs., \$1.50.

German or Golden Millet. Matures about two weeks later than Common Millet, grows 3 to 5 feet high, seeds golden yellow. Prepaid, lb., 15c; not prepaid, lb., 5c; 5 lbs., 20c; 10 lbs., 30c; bu., \$1.10; 100 lbs., \$2.00.

Wernich's Fancy German or Golden Millet. True Southern Grown German Millet Seed is for superior, both in quality and yield of product, to Western or Northern grown seed. The true Southern German Millet will grow in any climate or soil, and when properly grown and handled makes an enormous yield of most nutritious feed. To get these results, however, the seed must be sown **thickly**, not less than one bushel per acre, at any time between May 1st and July 15th, and the crop cut in eight to ten weeks, while it is in bloom, before the seed heads in the head. Prepaid, lb., 15c; not prepaid, lb., 5c; 5 lbs., 20c; 10 lbs., 40c; bu., \$1.35; 100 lbs., \$2.50.

Hungarian (Grass) Millet.—Medium early, grows 3 to 5 feet high, abundant foliage and slender head; withstands drouths and yields well on light soil. **48 lbs. to the bushel.** Prepaid, lb., 20c; not prepaid, lb., 10c; 5 lbs., 30c; 10 lbs., 50c; bu., \$1.60; 100 lbs., \$3.00.

Siberian or Russian Millet. A new Millet from Russia. Earlier than German, but does not grow as tall. Its height is only 2 to 4 feet, but it is a remarkable stouter and its fodder is eagerly eaten by all cattle. Prepaid, lb., 15c; not prepaid, lb., 5c; 5 lbs., 20c; 10 lbs., 40c; bu., (48 lbs.) \$1.25; 100 lbs. \$2.25.

German Edible Millet.—A variety used extensively in Germany for table use. The seed is mashed and cooked in milk. Prepaid, lb., 28c; not prepaid, lb., 18c; 10 lbs. \$1.50.

FIELD VETCH.

Spring Tares (*Viola sativa*)—Sown broadcast at rate of 1 to 1½ bushels to the acre, like wheat or barley, and sometimes mixed with oats for soiling. Prepaid, lb., 20c; not prepaid, lb., 10c; 5 lbs., 40c; 10 lbs., 75c; 25 lbs., \$1.75; 100 lbs., \$6.50.

Subject to Market Fluctuations.



Hungarian Grass.

FORAGE AND FODDER PLANTS.

Dwarf Essex RAPE.

It may be grown successfully in the following ways, viz: 1. In the early spring to provide pasture for sheep and swine. 2. In June or July on well prepared land to prepare pasture for sheep. 3. Along with grain, using 2 lbs. of seed per acre to provide pasture for sheep after harvest. 4. Along with peas, oats, clover seed, to provide pasture for sheep and to get a "catch" of clover. 5. Along with corn drilled in broadcast to provide pasture for sheep. 6. In corn, sowing the seed with the last cultivation given to the corn. 7. Along with rye sown in Aug. in sheep pasture. At the Michigan Experiment Station 128 Lambs were pastured for 8 weeks on 5 Acres of

Rape and showed the magnificent total gain of 2890 lbs., or almost 3 lbs. per lamb for each week they were on the Rape Feed, and all at the small cost for seeding of 45c per acre.

At the Wisconsin Agricultural Experiment Station half an Acre sown with Dwarf Essex Rape produced 9¼ Tons of Forage or at the rate of 19½ Tons per Acre.

Rape should be sown at the rate of 3 lbs. to the acre in drills and 4 to 6 lbs. per acre broadcast. It can be sown up to August. Prepaid, lb., 25c; not prepaid, lb., 15c; 5 lbs., 50c; 10 lbs., 75c; 25 lbs., \$1.75, 100 lbs., \$6.50.

JERUSALEM CORN.

"A SURE HAY CROP."

Grows about 3 feet high, and often has as many as 8 heads on 1 stalk. 6 to 8 lbs. of seed in rows will plant an acre. Broadcast 40 lbs. per acre. Prepaid, per lb., 25c; not prepaid, per lb., 15c; 5 lbs., 40c; 10 lbs., 75c; 25 lbs., \$1.25; 100 lbs., \$4.50.



TEOSINTE "THE WONDERFUL."

A fodder plant grown largely in some parts of the country. Somewhat resembling corn in appearance, but the leaves are much longer and broader, and the stalks contain sweeter sap. In its perfection it produces a great number shoots, growing as much as 12 feet high; very thickly covered with leaves, yielding such an abundance of foliage that one plant is considered sufficient to feed a pair of cattle for twenty-four hours. Eighty-five stalks have been grown from one seed, attaining a height of eleven feet. Horses and cattle eat it as freely as young sugar corn. Down in Georgia, Florida, and other Southern States, Teosinte will yield all the way from 100 to 200 Tons Green Fodder per Acre. In the Northern States it has yielded 50 Tons of Green Fodder per Acre.

We would advise sowing same in rows 2 feet apart, and the hills far enough apart to work. It wants plenty of sunshine and cultivation, and then it will grow so rapidly that it will soon cover a whole acre and look like a dense forest. It can be cut with a reaper and fed in the green state, or it can be dried and makes magnificent fodder for cattle during the long winter months. There are unlimited possibilities for our annual fodder plant, Teosinte, and we know if you will give it a trial, that in will more than pay you another year. Just try and grow this for your hogs. You will be surprised how they will relish it, and what a tremendous amount of fodder and food you will get out of an acre for them. Prepaid, pkt., 10c; oz., 20c; ¼ lb., 40c; lb., 85c; not prepaid, lb., 75c; 10 lbs., \$7.00; 25 lbs., \$15.00.

Teosinte.

RED KAFFIR CORN.

If the crop is wanted mainly for fodder, it is recommended to cut down the whole stock when the first seed heads come into bloom. The second growth springing at once from the roots, will still mature a full crop of grain and a second full crop of forage before the middle of October. Sow in rows three feet apart, six to eight lbs. of seed to the acre. Broadcast 40 lbs. per acre. Prepaid, per lb., 20c; not prepaid, per lb., 10c; 5 lbs., 30c; 10 lbs., 50c; 25 lbs., 85c; 100 lbs., \$2.75.

A FEW TESTIMONIALS.

T. Schaub, Garnaville, Iowa, writes: Your Seeds are always good. H. Sukert, Lidgerwood, N. D., writes: Never had any better Seeds. John Warneke, Greenwood, Wis., writes: Always satisfied with your Seeds.

N. Yunger, Belle Chester, Minn., writes: Your Seeds are tip top. E. Baumann, Winston, Mont., writes: Am well pleased with your Seeds.

Pet. Thiessen, Gibbons, Cal., writes: Your Seeds are good. Wernich Seed Co., Milwaukee, Wis.

Dear Sirs: I must get more Rape Seed from you. Can get some here but it does not do as well as yours. That bought of you is over 2 feet while that bought here and sown at the same time is only 6 to 8 inches high. "Order" follows.

F. J. KELLER. Cazenovia, Wis.

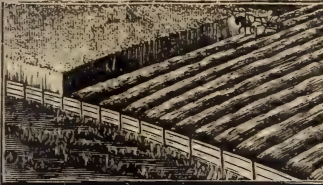
FORAGE AND FODDER PLANTS.

GIANT SPURRY.

Spurry is an annual plant, extensively cultivated in Europe as a Winter pasture for cattle and sheep. It grows so well on poor, dry, sandy soil that it has been called "the clover of sandy land." If sown in March, then again in May, and afterwards in July, it will produce three crops upon the same field in one season. Sow 15 lbs. per acre on soil fit for clover. It can be sown from March until August, and is fit for pasture in five weeks. Prepaid, per lb., 25c; 3 lbs., 65c; not prepaid, per lb., 15c; 5 lbs., 60c; 10 lbs., 95c; 25 lbs., \$2.00; 100 lbs., \$6.90.



GIANT SPURRY
THE GREAT FODDER PLANT
YIELD 4 TO 8 TON OF HAY PER ACRE



FODDER PLANT FOR POOR AND SANDY SOILS.

PENCILARIA.

For the Farmer. For the Stockman.
For the Dairyman. For the Poultryman.

A new Fodder Plant of untold value. To the farmer, for its immense growth of hay. To the dairyman, for its excellent fodder. To the Stockman, for its quick-growing forage. To the poultryman, for seed. It is a native of Central America. It is an annual plant, having broad foliage, very much resembling corn leaves. It is of rapid growth, throwing out from 1 plant numerous suckers, and if cut as soon as it reaches the height of 2 or 3 feet, it can be mowed from 4 to 6 times, according to the latitude, and yields several tons of dry hay per acre. If allowed to grow 6 or 7 feet high, and cut when the flower heads begin to develop, it will yield the harvest fodder crop per acre of any plant now in cultivation. For feeding it is equal to any fodder, and is relished by any kind of stock, either green or dry.

CULTURAL DIRECTIONS.—If for Hay purposes, sow very thinly in drills drills 12 to 18 inches apart, dropping a seed every 6 or 8 inches or broadcast 1 lb. per acre. As a Fodder plant sow in drills 3 or 3½ feet apart, thinning out to stand 18 inches apart in the drill. When high enough, cultivate the field thoroughly, as this may be the only opportunity; the growth becoming so dense that a cultivator could not be used a second time. As a Green food it will support 4 cows and other stock in proportion from the time it is 30 inches high until the end of the season. As a Seed producer it must have ample space to grow in 2 to 3 feet apart in the rows and 3 to 3½ feet between the rows. Cultivate twice. Per Pkt., 5c; oz., 10c; ¼ lb., 20c; 1 lb., 60c; 5 lb., \$2.75. Postpaid



AUSTRALIAN SALT BUSH.

The great fodder plant, which has proven a boon to the stock-raisers on our western prairies. In fact, it will be only a matter of time when thousands of acres of alkali lands will be made productive and profitable by planting this valuable forage plant. One pound of seed will plant an acre. Sow after the ground has become warm and all danger of frost is past. Mix the seed with ten times its bulk of loam, sand or land plaster and sow broadcast, after which cover lightly with a brush harrow or roll lightly. Or the seed may be sown in a hot-bed, cold frames, seed boxes, or in a protected garden bed, and the seedlings transplanted when two inches high, seven to eight feet apart. If the weather is dry when planting, supply a little water to each plant. Prepaid, pkt., 10c; oz., 20c; ¼ lb., 65c; lb., \$1.90.

JAPANESE {BARN YARD} MILLET.

(Panicum Crus Galli.)

OR BILLION DOLLAR GRASS.

Also called Steel Trust Millet.

Introduced by Prof. Brooks, of the Massachusetts Agricultural Experiment Station. Our Seed has been grown by Edw. E. Evans, whose picture appears in the lower corner of this page. This bundle of cut Millet stood 6 feet high. Since the introduction it has been sown from Maine to Washington and has given astonishing results in all sections, except in the arid and semi-arid regions of the west. It attains a height of 6 to 7½ feet with a yield of over 6 tons of cured hay per acre. Produces over 20 tons of green fodder. Cattle and horses eat it greedily. As a milk producer Crus Galli Seed has been found to equal corn meal. Our Seed is raised north of 44 deg. from absolutely pure thoroughly acclimated stock seed. Sow in May and June broadcast 10 to 12 pounds per acre; (it stools remarkably) or in drills 8 lbs. per acre. Will yield a crop in 6 to 9 weeks. Recommended by the United States Dep't of Agriculture and all Experiment Stations. Prepaid, lb., 20c; not prepaid, lb., 10c; pk., 75c; bu., (32 lbs.) \$2.50; 100 lbs., \$6.50.



MISCELLANEOUS FORAGE AND FODDER PLANTS.

JAPANESE SOJA BEAN.

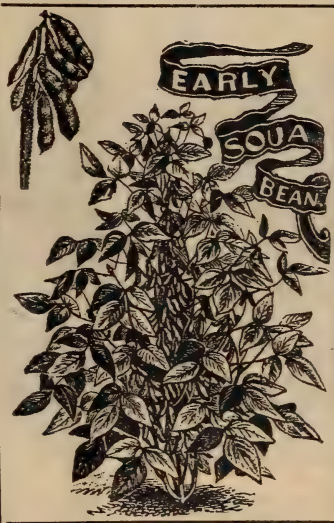
Originally brought from Japan by Prof Brooks of the Massachusetts Experiment Station, it at once attracted the attention of scientists. It has been subjected to the most exhaustive trials to demonstrate its feeding value, yield and hardness and in every instance it has won the most emphatic commendation. The U. S. Dep't of Agriculture Bulletin 58 says: They are probably the richest known vegetable substance. There is no crop so easily grown that is so rich as the Soja Bean. Excepting the Peanut, there is no other vegetable product known which contains such high percentage of protein and fat in such highly digestible form. The actual feeding value of Soja's is two and one-half to three times that of the best corn. Soja hay has a higher feeding value than the best clover. As a soil renovator Soja's are not surpassed by any legume in existence. They withstand the extremes of heat, drouth and wet weather, when corn and all other peas fail. Our Seed is grown especially for us in 44 deg. 12 min. north latitude from stock that has never been planted south of 42 deg. 30 min., under the personal supervision of an expert, Edw. E. Evans, grower of our Japanese Barnyard Millet. Sow in drills $1\frac{1}{2}$ inches deep, 3 inches apart, and 28 inches between the rows. About 12 to 16 qts. per acre if sown in drills. If broadcast for hay or forage sow 1 to $1\frac{1}{2}$ bu. per acre. Never cultivate if leaves are wet.

Medium Early Green. A rank grower, stalks 3 to 4 feet high, beans small. Best for ensilage. Prepaid, pt., 25c; qt., 40c. Not prepaid, pt., 15c; qt., 25c; peck, \$1.25; bu., \$4.50.

Extra Early Black. (Purple Blossom). Grows $2\frac{1}{2}$ to $3\frac{1}{2}$ ft. high, beans plump, large and round. Yield 50 bu and over per acre. Prepaid, pt., 25c; qt., 40c. Not prepaid, pt., 15c; qt., 25c; peck, \$1.25; bu., \$4.00.

Ito San. (New.) Medium early. Stalks $2\frac{1}{2}$ to 4 feet high with a dense foliage. Beans small, yellow and flattened. Prepaid, pt., 25c; qt., 40c. Not prepaid, pt., 15c; qt., 25c; peck, \$1.25; bu., \$4.50.

Common Small Yellow. Also called and sold by certain Seedsmen as **German Coffee Berry.** The Beans, roasted and ground, closely resemble and taste very much like coffee. Grows 18 inches to $2\frac{1}{2}$ feet high, beans small and straw colored. Not recommended for the northern states. Prepaid, pt., 20c; qt., 35c. Not prepaid, pt., 10c; qt., 20c; peck, \$1.00; bu., \$3.50.



VELVET BEAN, THE GREAT NITROGEN GATHERER.

A worthy rival of the Cow Pea.

This new and important forage plant is creating a great sensation throughout the Southern States, where it is supplanting the cow pea for cattle food and as a soil renovator. Its nitrogen-gathering properties are said to surpass those of the cow pea. It is the rankest grower of any of the legumes; two or three seeds planted four feet apart in rows five feet apart will literally cover the ground two to three feet thick with a mass of foliage and vines 20 to 25 feet long, no matter how poor the soil. It leaves a mulch on the ground that is very beneficial to the soil. As to prolificacy, we never have seen the like; such huge clusters of beans, from 15 to 25 pods, and often more, in a single cluster giving over 1000 beans on a vine. The Florida Experimental Station reports 16,680 lbs. of green forage per acre. Prepaid, per pt., 35c; qt., 50c. Not prepaid, pt., 20c; qt., 35c; pk., \$1.50; bu., \$5.00.

FIELD BEANS.

Wernich's Improved Prolific Tree. A new field variety, bearing enormous crops, reaching 60 to 80 bushels to the acre. They should be planted very thinly in rows $2\frac{1}{2}$ feet apart. Prepaid, pt., 20c; qt., 35c. Not prepaid, pt., 10c; qt., 20c; pk., \$1.25; bu., \$4.00.

Navy. A well-known variety. Prepaid, pt., 20c; qt., 30c. Not prepaid, pt., 10c; qt., 15c; pk., \$1.00; bu., \$3.50.

COW PEAS. THE GREAT SOIL IMPROVER.

Like Clover they absorb nitrogen from the atmosphere, the roots reach deep into the soil and bring up the necessary potash, thus making a complete and natural fertilizer. For fertilizing purposes, **Cow Peas** are superior to Clover from the fact that the foliage is greater, besides making full growth in from three to four months. If planted early in the Central Corn Belt Section, a crop can be cut and cured for Hay the same as Clover; then the stubble in a short time will put out a new growth which can be turned under in the Fall as a fertilizer. Sow as early as May 10th or as late as July, One (1) bushel to the acre broadcast. **Cow Peas** can also be drilled in between rows of Corn; the Peas will ripen early in the Fall, when the Corn is cut off; and stock turned in will feed upon the Peas without touching the Corn until the Peas are gone. Half ($\frac{1}{2}$) bushel to the acre is required when planted in Corn.

Whippoorwill. Is a medium sized, kidney shaped, blotched pea; are the earliest to mature, rather dwarf in growth. Prepaid, per lb., 20c. Not prepaid, per lb., 10c; 5 lbs., 45c; 10 lbs., 75c; 25 lbs. \$1.50; 100 lbs., \$5.00.

Clay, Colored. These are of a clay color, peas rather round in shape, makes half vines, sometimes growing twelve feet; medium late in ripening, one of the best for fertilizer or hay-making. Prepaid, per lb., 20c. Not prepaid, per lb., 10c; 5 lbs., 45c; 10 lbs., 75c; 25 lbs., \$1.50; 100 lbs., \$5.00.

FIELD PEAS.

For Dairy Cows and Hogs. "Equal to Corn and Six Weeks Earlier."

Can be sown separately in drill, or broadcast, 2 to $2\frac{1}{2}$ bushels to the acre, or with Oats $1\frac{1}{2}$ bushels to acre. Cut and feed green, or if for hogs alone, can be used as pasture. They have been grown by dairymen with very satisfactory results, following Winter Rye, which was cut green in June for Dairy Cows, then stubble turned under and sown to mixed Peas. As a fertilizer they come next to Clover, to be plowed under when they commence to blossom.

Canadian White. Prepaid, pt., 15c; qt., 25c. Not prepaid, pt., 5c; qt., 10c; pk., 50c; bu., \$1.95; $2\frac{1}{2}$ bu., \$4.75.

Canadian Green. Prepaid, pt., 15c; qt., 25c. Not prepaid, pt., 5c; qt., 10c; pk., 50c; bu., \$1.95; $2\frac{1}{2}$ bu., \$4.75.

Blue Prussian. Prepaid, pt., 15c; qt., 25c. Not prepaid, pt., 5c; qt., 10c; pk., 55c; bu., \$2.05; $2\frac{1}{2}$ bu., \$5.00.

French June. A new sort, seed of which was imported from Europe. Seed is smaller than that of the Canadian. Prepaid, pt., 20c; qt., 30c. Not prepaid, pt., 10c; qt., 15c; pk., 60c; bu., \$2.15; $2\frac{1}{2}$ bu., \$5.25.

LATHYRUS SYLVESTRIS.

(FLAT PEA.)

Once established, Lathyrus will stand for fifty years without reseeding. Seed should be sown in a small garden bed and transplanted when the plants are of suitable size. Its roots penetrate the soil thirty feet, which enables it to withstand great extremes of cold and drouth. It has double the feeding value of Alfalfa, a crop richer than Red Clover. It is rich enough for fattening either hogs or sheep without any grain. It will last fifty years without manure and without reseeding. It will cut eight tons of hay per acre in a season. When established, a field of it will fatten hogs without any corn. The plants grow very little above ground the first year, but the roots make rapid growth. The second year the top thickens up, and the third year the plant is matured. The seed requires several weeks to germinate. Sow in April or May on well prepared ground in drills about one to two feet apart. seeds about one to two inches deep, about two inches apart in the drills, and cover well; keep well cleaned from weeds afterwards. The plant can be transplanted either in spring or fall on any kind of soil, even on rocky ground, but not on wet lands. Prepaid, pkg., 5c; oz., 10c; $\frac{1}{4}$ lb., 40c; 1 lb., \$1.10. Not prepaid, 1 lb., \$1.00; 5 lbs., \$4.80; 10 lbs., \$9.00.

BROOM CORN.

Requires similar soil and culture as corn, but should be planted later. It is frequently planted in drills 3½ feet apart, leaving the plants 6 inches apart. 10 lbs. is sufficient to plant one acre.

Improved Evergreen. Grown more extensively than any other variety. Grows seven feet high. Sow 35 lbs. to the acre. Prepaid, per lb. 20c; not prepaid, per lb. 10c, 5 lbs. 30c, 10 lbs. 50c, 25 lbs. \$1.10, 100 lbs. \$3.75.

LUPINS.

Cultivated like Peas. The young plants are good for sheep. It is also one of the best plants known for soil-ing. It may be sown from April to July, and succeeds well in the poorest soil.

Blue. Prepaid, per lb. 20c; not prepaid, lb. 10c, 5 lbs. 45c, 10 lbs. 75c, 25 lbs. \$1.85, 100 lbs. \$7.00.

Yellow. Prepaid, per lb., 20c; not prepaid, lb. 10c, 5 lbs. 45c, 10 lbs. 75c, 25 lbs. \$1.85, 100 lbs. \$7.00.

LENTILS.

Cultivated like Peas. Largely used for soups. Has a ready sale in all grocery stores. Prepaid, per lb. 25c; not prepaid, 1 lb. 15c, 5 lbs. 65c, 10 lbs. \$1.10, 25 lbs. \$2.50, 100 lbs. \$8.50.

MILO MAZE, YELLOW.

The growth is tall, 9 to 12 feet, stooling from the ground. It sends out shoots also from the joints. The seed heads grow to great size on good land, often weighing ¾ of a pound. Sow 4 to 8 lbs. in rows per acre. Broadcast, 30 to 40 lbs. per acre. Prepaid, per lb. 25c; not prepaid, 1 lb. 15c, 5 lbs. 40c, 10 lbs. 75c, 25 lbs. \$1.35, 100 lbs. \$4.50.

SUGAR CANE.

Orange. Adapted to almost every section wherever introduced as a profitable crop for fodder, as well as for sugar making. Prepaid, lb. 25c; not prepaid, 1 lb. 15c, 5 lbs. 45c, 10 lbs. 75c, 25 lbs. \$1.10, 100 lbs. \$3.50.

Early Minnesota. Northern grown and the hardest variety known. Prepaid, lb. 20c; not prepaid, 1 lb. 10c, 5 lb. 30c, 10 lbs. 50c, 25 lbs. \$1.00, 100 lbs. \$3.25.

SUNFLOWER SEED.

Sunflower seed is the best egg producing food known for poultry. It can be raised cheaper than corn. Every farmer should plant some of the seed in any waste place of ground any time from early spring up to the middle of July. Besides the great value of seed as a poultry and stock food, its leaves make capital fodder, while its strong, thick stalks can be profitably used as fuel. Three quarts of seed will plant one acre.

Large Russian. Prepaid, lb. 20c; not prepaid, lb. 10c, 5 lbs. 30c, 10 lbs. 50c, 25 lbs. \$1.00, 100 lbs. \$3.50.

White Beauty. Prepaid, ¼ lb. 20c, 1 lb. 55c; not prepaid, 1 lb. 45c, 5 lbs. \$2.00, 10 lbs. \$3.25.

WILD RICE.

A valuable plant for sowing in lakes and marshes to attract water fowl. The seed should be sown during September and October, or in the early spring, as soon as the ice has disappeared. It should be scattered in water from one to three feet deep. Prepaid, per lb. 20c; not prepaid, 1 lb. 20c, 5 lbs. 90c, 10 lbs. \$1.70, 25 lbs. \$4.00, 100 lbs. \$15.00.

SACCALINE.

Extensively sold as a forage plant for desert and arid regions, as well as for low ground and waste places. Few of the experiments are sufficiently productive of results to recommend or condemn Saccaline. Prepaid, pkt. 10c, oz. 35c, ¼ lb. \$1.25, lb. \$4.00.

BIRD SEEDS.

If by Mail add 8 cts. per lb. for Postage.

	Lb.	5 lb.	10 lb.	25 lb.	100 lb.
Bird Rape	\$0.07	\$0.30	\$0.55	\$1.25	\$4.75
Canary .....	.07	.30	.60	1.45	5.50
Hemp .....	.08	.35	.65	1.60	6.00
Poppy or Maw....	.15	.70	1.30	3.00	11.00
Lettuce Seed .....	.25	1.15	2.00	4.00	15.00
Mixed Bird Seed ..	.08	.35	.65	1.60	6.00

Tree, Hedge and Fruit Seeds.

Few investments made by farmers will return a larger profit in the course of a few years than the planting of forest trees on uncultivated land, or on land cultivated at a loss. The time is rapidly coming when land covered with our best forest trees will be of great value.

We quote the standard sorts only. Should you desire varieties not named in our list, write us and we will furnish at lowest possible prices. Prices given include postage paid by us.

CULTURE: Sow early in spring, in well prepared beds, about two inches deep. When the seeds begin to germinate cover the beds lightly with pine boughs to shade the young plants from the sun. When the plants are all up, the brush should be gradually removed, but replaced before winter sets in. Let plants remain in beds for about two years, then transplant into rows 2 feet apart, leaving about 12 inches between each plant. Keep ground clear, and when plants are strong enough remove to their intended place.

ENGLISH NAME.	LATIN NAME.	Per Pkg.	Per Oz.	Per ¼ lb.	Per 1 lb.
EVERGREENS.					
Cypress.....	Cyprissus.....	\$0.05	\$0.30	\$1.00	\$3.50
European Juniper.....	Juniperus Communis.....	.05	.10	.40	1.00
Blue Spruce.....	Picea Pungens.....	.10	.60	2.00	6.00
Douglas Spruce.....	Picea Douglasii.....	.10	.35	1.00	3.50
Norway Spruce.....	Picea Excelsia.....	.05	.10	.40	1.00
Silver Fir.....	Picea Taxifolia.....	.05	.20	.60	2.20
Austrian Pine.....	Pinus Austriaca.....	.05	.15	.55	1.90
Scotch Pine.....	Pinus Sylvestris.....	.05	.20	.60	2.20
White Pine.....	Pinus Strobus.....	.05	.25	.85	3.00
SHRUBS.					
White Fringe.....	Chionanthus Virginica.....	.05	.20	.60	2.25
Golden Chain Tree.....	Cytissus Laburnum.....	.05	.15	.45	1.50
Lilac.....	Syringe Vulgaris.....	.05	.20	.60	2.25
Whin or Furze ..	Ulex Europaeus.....	.05	.15	.40	1.35
Snowball	Viburnum Opulus.....	.05	.25	.90	3.25

FRUIT.

	Pkg.	¼ lb.	1 lb.		Pkg.	¼ lb.	1 lb.
Apple.....	\$0.05	\$0.20	\$0.60	Pear Seeds.....	\$0.05	\$0.60	\$1.50
Apricot Pits....	.05	.20	.60	Plum Pits.....	.05	.20	.75
Cherry Pits....	.05	.20	.60	Quince .....	.05	.60	2.00

ENGLISH NAME.	LATIN NAME.	Per Pkg.	Per Oz.	Per ¼ lb.	Per 1 lb.
DECIDUOUS.					
Tree of Heaven.....	Alianthus Glandulosa.....	\$0.05	\$0.10	\$0.25	\$0.75
Box Elder.....	Acer Negundo.....	.....	.05	.15	.35
Sugar Maple.....	Acer Sacharinum.....	.05	.10	.30	1.00
European Birch.....	Betula Alba.....	.05	.15	.40	1.50
Catalpa	Catalpa Speciosa.....	.05	.15	.40	1.20
European Ash.....	Fraxinus Excelsior.....	.05	.10	.20	.60
White Mulberry.....	Morus Alba.....	.05	.25	.75	2.50
Black Mulberry.....	Morus Nigra.....	.05	.25	.80	2.75
European Basswood.....	Tilia Europaea.....	.05	.10	.30	1.00
HEDGE.					
Hawthorn.....	Crataegus Oacantha.....	.05	.15	.50	1.5
Dog Rose or Briar.....	Rosa Canina.....	.05	.10	.25	.70
Honey Locust.....	Gleditsia Triacanthus.....	.05	.10	.20	.65
Buckthorn.....	Rhamus Catharticus.....	.05	.15	.30	1.25
Acacia	Robina Pseudacacia.....	.05	.10	.20	.65

SMALL FRUIT.

	Pkg.	Oz.	¼ lb.		Pkg.	Oz.	¼ lb.
Currants, Red.....	\$0.10	\$0.30	\$0.90	Grape.....	\$0.10	\$0.25	\$0.65
Currants White.....	.10	.30	.90	Raspberry.....	.10	.25	.80
Gooseberry.....	.10	.75	2.75	Strawberry.....	.10	.85	3.00

NOTE.—Owing to the many causes for failure in the germination of Tree Seeds, we wish it distinctly understood that we cannot be held responsible for any loss or damages arising from any failure thereof. Orders filled on above conditions only.

GRASS SEEDS.



Sweet Vernal.

Grass is
King.

...THE...

No Grass,
No Cattle.

Plain Truth About Grasses.

If Grass be King, then High-Grade Seed is necessary to make it such, therefore

MR. FARMER

If you pay little attention to the selection of Timothy, Clover and other grass seed, but buy from country merchants (who, however, well-intentioned, seldom have sufficient expert knowledge in this matter to protect

No Cattle,
No Manure.

their customers), will in a few years invariably you find growing more weeds than grass.

No Manure,
No Crops.

WEIGHTS OF GRASSES.

To avoid confusion, we have adopted the uniform weight of 14 lbs. to the bushel of Grass Seed, excepting where otherwise noted. Therefore when comparing our prices with those of other houses, take notice of this fact, as they sell according to stroke measure weight, thus they give 7 lbs. of Meadow Foxtail for a bushel and figure the price that way, whereas we give 14 pounds to the bushel and charge accordingly.



Orchard Grass.

BERMUDA GRASS.

Not known in the North, but an excellent variety for warm Southern country. The seed is hard to harvest, therefore expensive. Per pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 30c, 1 lb. \$1.00, 5 lbs. \$4.75.

BROMUS MOLLIS.

(Soft Brome Grass.) Grows on any soil. It flowers in June. Largely used in Europe. By many considered a weed, others disputing this by claiming it to be a valuable addition to the already well known varieties. Prepaid, lb. 25c; not prepaid, lb. 15c, bu. \$2.00, 100 lbs. \$12.50.

CANADA BLUE GRASS.

(Poa Canadensis.) An excellent variety for pasturage. Prepaid, per lb. 25c; not prepaid, per lb. 15c, bu. (14 lbs.) \$1.00, 100 lbs. \$8.50.

CREEPING BENT.

(Agrostis Stolonifera.) Nothing better for deep, rich and moist soils. Valuable for pasturage. Prepaid, per lb. 30c; not prepaid, per lb. 20c, bu. (14 lbs.) \$2.25, 100 lbs. \$15.00.

CRESTED DOGSTALL.

(Cynosurus Cristatus.) Withstands drouth and does well on dry land. Either for pasture or lawn purposes. Prepaid, per lb. 45c; not prepaid, per lb. 35c, bu. (14 lbs.) \$3.90, 100 lbs. \$26.50.

ENGLISH RYE GRASS.

(Lolium Perenne.) One of the best varieties for permanent pastures and meadows. Prepaid, per lb. 18c; not prepaid, per lb. 10c, bu. (14 lbs.) \$1.25, 100 lbs. \$6.50.



Creeping Bent.

FINE LEAVED FESCUE.

(Festuca Ovina Tenuifolia.) The finest bladed grass valuable only for lawns and pastures. Prepaid, lb. 50; not prepaid, lb. 40c, bu. (14 lbs.) \$4.50, 100 lbs. \$31.00.

FOWL MEADOW.

(Poa Serotina.) Grows rapidly and is valuable for low lands. Prepaid, lb. 40c; not prepaid, lb. 30c, bu. (14 lbs.) \$3.75, 100 lbs. \$25.00.

HARD FESCUE.

(Festuca Duruscula.) Excellent variety for dry soils, and in appearance similar to Sheep Fescue. Prepaid, lb. 25c; not prepaid, lb. 15c, bu. (14 lbs.) \$1.25, 100 lbs. \$12.25.

ITALIAN RYE GRASS.

(Lolium Italicum.) Good for any soil. Immense yielder. Prepaid, lb. 25c; not prepaid, lb. 15c, bu. (14 lbs.) \$1.75, 100 lbs. \$7.50.

JOHNSON GRASS.

(Sorghum Halpense.) For Southern States this is the best variety. It will stand great heat and severe drouth and is liked well by all kinds of stock. Prepaid, per lb. 25c; not prepaid, per lb. 15c, bu. (25 lbs.) \$2.50, 100 lbs. \$9.90.

KENTUCKY BLUE GRASS.

(Poa Patensis.) Better known as June Grass. It is adaptable to all climates and almost all soils as an excellent pasture and lawn grass.

Fancy No. 1.—Recleaned. Prepaid, per lb. 25c; not prepaid, per lb. 15c, bu. (14 lbs.) \$1.95, 100 lbs. \$11.50.

Common No. 2.—More chaffy than the fancy. Prepaid, per lb. 20c; not prepaid, per lb. 12c, bu. (14 lbs.) \$1.25, 100 lbs. \$7.50.



English Rye.



Hard Fescue.



Dog's Tail.



Fowl Meadow.



Italian Rye.



Rough Stalked Meadow.



Wood Hair.



Wood Meadow.



Sheep's Fescue.



Tall Fescue.

MEADOW FESCUE.

(Festuca Pratensis.) This variety should not fail to be in all permanent pastures.

No. 1 Fancy—Prepaid, per lb. 25c; not prepaid, per lb. 15c, bu. \$1.40, 100 lbs. \$8 50.

No. 2 Common—Prepaid, per lb. 25c; not prepaid, per lb. 10c, bu. \$1.25, 100 lbs. \$7.50.

MEADOW FOXTAIL.

(Alopecurus Pratensis.) A perennial valuable for permanent pastures.

Fancy No. 1—Prepaid, per lb. 35c; not prepaid, per lb. 25c; bu. (14 lbs.) \$3.25, 100 lbs. \$20.00.

No. 2—Prepaid, per lb. 28c; not prepaid, per lb. 18c, bu. \$2.40, 100 lbs. \$16.00.

ORCHARD GRASS.

(Dactylis Glomerata.) This is the best and one of the earliest pasture grasses known.

Recleaned No. 1—Northern grown seed. Prepaid, per lb. 28c; not prepaid, per lb. 18c, bu. (14 lbs.) \$2.25, 100 lbs. \$14.50.

Common No. 2—Good seed, but contains some English Rye Grass. Prepaid, per lb. 25c; not prepaid, per lb. 15c, bu. (14 lbs.) \$1.75, 100 lbs. \$10.50.

RED FESCUE.

(Festuca Rubra.) A good variety for pasture, also used for lawns. Hardy and withstands drouth. Prepaid, per lb. 30c; not prepaid, per lb. 20c; bu. (14 lbs.) \$1.95, 100 lbs. \$12.50.

RED TOP.

(Agrostis Vulgaris.) One of the best known varieties, adaptable to almost any kind of soil.

Fancy No. 1—Recleaned seed. Prepaid, per lb. 25c; not prepaid, per lb. 15c, bu. (14 lbs.) \$1.75, 100 lbs. \$10.50.

Choice No. 2—Contains a little chaff. Prepaid, per lb. 20c; not prepaid, per lb. 10c, bu. (14 lbs.) \$1.25, 100 lbs. \$7.50.

Common No. 3—Such as is sold in feed stores. Prepaid, per lb. 17c; not prepaid, per lb. 7c; bu. (14 lbs.) 90c; 100 lbs. \$4.25.

ROUGH STALKED MEADOW.

(Poa Trivialis.) Used mostly on low, damp soils. Prepaid, per lb. 40c; not prepaid, per lb. 30c, bu. (14 lbs.) \$3.85, 100 lbs. \$24.00.

SHEEP'S FESCUE.

(Festuca Ovina.) A favorite variety for sheep pasturage. Withstands drouth.

Fancy No. 1—Prepaid, per lb. 30c; not prepaid, per lb. 20c, bu. (14 lbs.) \$1.95, 100 lbs. \$12.50.

No. 2—Prepaid, per lb. 25c; not prepaid, per lb. 15c, bu. (14 lbs.) \$1.60, 100 lbs. \$10.00.



Meadow Foxtail.



Blue Grass.



Water Meadow.



Yellow Oat.

SWEET VERNAL ANNUAL.

(Anthoxanthum Puelli.) Used in all meadows and pastures. Owes its name to its sweet odor when in bloom. Prepaid, per lb. 25c; not prepaid, per lb. 15c; bu. (14 lbs.) \$1.75, 100 lbs. \$11.50.

SWEET VERNAL PERENNIAL.

(Anthoxanthum Odoratum.) A good variety for use in all permanent meadows and pastures. Prepaid, per lb. \$1.20; not prepaid, per lb. \$1.10, bu. \$14.00, 100 lbs. \$90.00.

TALL FESCUE.

(Festuca Elatior.) A good producing variety on low lands. Prepaid, per lb. 40c; not prepaid, per lb. 30c; bu. (14 lbs.) \$2.45, 100 lbs. \$23.50.

TALL MEADOW OATS.

(Avena Elatior.) A rapid grower and an abundant yielder. Ought to be in all permanent meadows. Prepaid, per lb. 30c; not prepaid, per lb. 20c, bu. (14 lbs.) \$2.45, 100 lbs. \$15.00.

VARIOUS-LEAVED FESCUE

(Festuca Heterophylla.) Valuable for pastures and lawns. Prepaid, per lb. 35c; not prepaid, per lb. 25c, bu. (14 lbs.) \$3.15, 100 lbs. \$20.00.

WATER FESCUE.

(Glyceria Fluitans.) Like the following variety in that it is valuable for improving marshes and low land in general. Mixed with Water Meadow, Fowl Meadow, and Rough Stalked Meadow, it produces a fine quality of hay. Prepaid, per lb. 35c; not prepaid, per lb. 25c, bu. (14 lbs.) \$3.25, 100 lbs. \$21.00.

WATER MEADOW.

(Glyceria Aquatica.) Of great value for low land, which is more or less under water at times, and where other grasses don't catch or are drowned out. Grows rank and coarse, still it is nutritious and well liked by cattle. Prepaid, per lb. 40c; not prepaid, per lb. 30c, bu. (14 lbs.) \$3.50, 100 lbs. \$25.00.

WOOD HAIR GRASS.

(Aira Flexuosa.) Is hardy and also grows in the driest regions. Does as well in shady places. It is not of much value for hay. Prepaid, per lb. 25c; not prepaid, per lb. 15c, bu. (14 lbs.) \$2.00, 100 lbs. \$12.00.

WOOD MEADOW.

(Poa Nemoralis.) A good variety for pasturage in shady places. Also a good variety for shady lawns. Prepaid, per lb. 50c; not prepaid, per lb. 40c, bu. (14 lbs.) \$5.00, 100 lbs. \$35.00.

WOOLLY SOFT GRASS.

(Holcus Lanatus.) Will grow on any soil, especially low land for meadows. Prepaid, per lb. 25c; not prepaid, per lb. 15c, bu. (14 lbs.) \$1.95, 100 lbs. \$12.00.

YELLOW OAT GRASS.

(Avena Flavescens.) An excellent variety for pasture and meadows. Prepaid, per lb. 55c; not prepaid, per lb. 45c; bu. (14 lbs.) \$6.25, 100 lbs. \$40.00.

2 TO FOUR CUTS PER ACRE.**B
R
O
M
U
S

I
N
E
R
M
I
S****H
U
N
G
A
R
I
A
N

B
R
O
M
E****4 TO 7 TONS PER ACRE.****BROMUS INERMIS**

OR

AWNLESS BROME GRASS.**REPORTS OF EXPERIMENT STATIONS.**

Mr. J. H. Shepperd, Professor of Agriculture, N. D. Agricultural College, Fargo, writes on Nov. 15, 1899:

"As pasturage it is preferred to timothy by the cattle, as shown by a trial, where it was fed off more closely than timothy in the same pasture. It has the advantage of being early and being green until late in the fall. The fact that the Bromus inermis resists drouth better than other cultivated grasses, greatly adds to its value in the Northwest. The eagerness with which it is sought by stock leads me to believe that it is of as much value as timothy for hay and pasturage, and that the hay is as valuable, ton for ton."

Mr. S. W. Bedford, Supt. of Experimental Farm at Brandon, Manitoba, writes on Nov. 9, 1899:

The Bromus inermis has done exceedingly well on the farm here, both on high and low land. Even on our gravelly soil and the tops of hills it has given us a fair return, while on the rich, alluvial soil it has yielded us a very heavy crop indeed, exceeding four tons of dry hay to the acre during the past year. It gives us a very much larger return than timothy, and cattle prefer it to any other hay we have tested here. We have tested its feeding value, both to dairy cattle and for feeding steers, and find that it gives us much better results than any other class of hay."

Positively Drouth Defying and Frost Resisting.

Will stand the extremes of heat, cold and drouth. It yields enormous crops of splendid hay and affords early and abundant pasturage. It adapts itself to almost every condition of soil and climate,

and to any use to which grass may be put, equalling in quality and rivaling in yield almost every other grass. It is no longer an experiment but a thoroughly established success. Will do as well in Canada as it does in the South, growing with a rapidity that is wonderful and producing heavy crops of hay and luxuriant pasturage. All kinds of stock eat it greedily, and by actual tests it has been found that it is exceedingly rich in flesh-forming ingredients. The seed should be sown as early in the spring as the ground can be worked.

Our Seed is the best to be obtained. If you don't believe it, send for a free sample and test it.

PRICES.

No. 1. Prepaid per lb. 28c; not prepaid, 1 lb. 20c; bu. \$2.10; 100 lbs. \$13.25.

No. 2. Prepaid per lb. 25c; not prepaid, 1 lb. 15c; bu. \$1.95; 100 lbs. \$12.25.

TIMOTHY.

(Phleum Pratense.)

Northern Grown.

We wish we could talk to you personally, Mr. Farmer, instead of writing about the excellent quality of our Fancy No. 1 Timothy, we offer you. Ours is not the common grade as usually sold by your local merchant, who buys in open market seed which has not been cleaned, and very often containing weeds, which cause more damage than what the difference in cost would have been had the buyer purchased our Northern Grown Seed in the first place. Send for a sample of our Timothy and compare it with that of your local merchant or Seed Dealer.

Fancy No. 1. Tests 100 per cent. Prepaid, 1 lb. 20c; not prepaid, 1 lb. 10c; peck 80c; bu. (45 lbs.) \$2.95; 100 lbs. \$5.50.

Common No. 2. Market price. Prepaid per lb. 16c; not prepaid, 1 lb. 8c; peck 70c; bu. (45 lbs.) \$2.50; 100 lbs. \$4.50.

**TURKESTAN ALFALFA.**

(Medicago Sativa Var. Turkestanica.)

Perfectly hardy, withstands drouth, heat and cold. It is a native of Russian Turkestan and was discovered by Prof. N. E. Hansen while on an exploring expedition in that country for the Department of Agriculture, Washington. The climate of Turkestan is not unlike that of our interior states, being far removed from the ocean and surrounded by wide expanses of dry land. The summers are very hot and long, and in many places the evaporation exceeds the quantity of moisture that has fallen during the year. The inhabitants are principally engaged in Stock Raising, and here it is that this valuable new addition to our Clover family grows and flourishes.

WITHSTANDS EXTREME COLD WITHOUT INJURY.

At the Experimental Station, Brookings, So. Dakota, with a minimum temperature of 40 degrees below zero, the ground bare, common Alfalfa was killed, while

TURKESTAN CAME THROUGH UNHARMED.

At the Wyoming Experiment Station the Turkestan Alfalfa was exposed to a minimum temperature of

45 DEGREES BELOW ZERO WITHOUT HARM.

We cannot impress upon you, Mr. Farmer, too strongly, to give Turkestan Alfalfa a trial this year. Order early, as the supply is limited. Prepaid per lb. 35c; 3 lbs. for \$1.00; Not prepaid per lb. 25c; peck \$3.00; bu. \$11.40; 100 lbs. \$17.50.



RECLEANED CLOVER SEED

To every 2 bushel or less add 15c for new bag. Prices subject to variation.
Special quotations for large quantities.

When buying Clover Seed, price should cut no figure with the farmer. What he wants is good Seed. We have it, and its better than good. Our prices are right, too. Send for Samples.

ALSIKE OR SWEDISH.

(Trifolium Hybridum.)

Hardy, yields enormously, and can be cut several times a year. Adapted to either high or low lands. Fancy No. 1—Northern grown seed. Prepaid, per lb. 30c; not prepaid, per lb. 20c, pk. \$2.75, bu. \$9.90, 100 lbs. \$16.00.

Common No. 2—The kind such as is usually sold in flour and feed stores. Prepaid, lb. 27c; not prepaid, lb. 17c, pk. \$2.40, bu. \$9.00, 100 lbs. \$14.50.

BOKHORA OR SWEET.

(Melilotus Alba.)

Of little value, except as a pasture for bees. Can also be used as a fertilizer. Prepaid, per lb. 35c; not prepaid, lb. 25c, pk. \$3.50, bu. \$12.00, 100 lbs. \$20.00.

CRIMSON.

(Trifolium Incarnatum.)

An annual variety, mostly used in the South, where it can be sown in the fall with success, but if sown in the North, not before spring. It produces enormously. Prepaid, per lb. 25c; not prepaid, lb. 15c, pk. \$1.25, bu. \$4.25, 100 lbs. \$6.75.

JAPAN.

(Lespedeza Striata.)

A low-spreading perennial, much like White Clover, of great value in Southern States. Flourishes on the poorest soils and withstands drouth. Prepaid, lb. 45c; not prepaid lb. 35c, peck, \$1.75, bu. (25 lbs.) \$6.50, 100 lbs. \$24.00.

MAMMOTH RED.

(Trifolium Pratense Perenne.)

Grows almost again as large as Red Clover, and often catches where other clovers fail.

Fancy No. 1—Recleaned. Prepaid, lb. 25c; not prepaid, lb. 15c, peck \$2.10, bu. \$7.80, 100 lbs. \$12.50.

Common No. 2—Prepaid, per lb. 25c; not prepaid, per lb. 15c; peck, \$1.95; bu. \$7.20; 100 lbs. \$11.75.

MEDIUM RED OR JUNE.

(Trifolium Pratense.)

Fancy No. 1—Fancy recleaned, Northern grown seed. Although this is the best to be had, we do not class it with our matchless Silesian Red. Prepaid, per lb. 25c; not prepaid, per lb. 15c; per peck, \$2.10; per bu. \$7.80; 100 lbs. \$12.50.

Common Red No. 2—Prepaid, per lb. 25c; not prepaid, per lb. 15c; peck, \$1.95; bu. \$7.20; 100 lbs. \$11.75.

SILESIA RED CLOVER.

Heat Won't Kill It. Frost Won't Kill It. It is an undisputed and acknowledged fact that Medium Red or June Clover is by far the most important for all Clovers for practical purposes. Experience, however, has proven that it suffers easily from drought and frost, which has been more noticeable the last few years in our northern climate, on account of our hot and dry summers and severe winters. Drought and frost will not affect **Silesian Red Clover**, which has proven to be absolutely **Drought Defying and Frost Resisting**.

It has become so widely known for its purity, strong vitality, hardiness, vigorous and healthy growth, and stooing qualities that we now receive orders from all over the United States and Canada where clover is sown. We do not sell the European grown seed which is very expensive. The seed we offer is grown in the north from seed imported by us, thus selling only seed that is thoroughly acclimated. In appearance Silesian Red Clover resembles the native red excepting that blossoms when full grown are larger and contain more seed when thoroughly ripe. In growth it differs vastly; its roots penetrate deeper, thus producing more vitality to the plant and giving it more sturdiness in growth and resisting powers. Prepaid, lb. 30c; not prepaid, lb. 20c, peck \$2.50, bu. \$9.00, 100 lbs. \$13.90.

SAINFOIN OR ESPARCETE.

(Onobrychis Sativa.)

Known in Europe as one of the best fodder and hay producing plants. The roots penetrate the ground to a great depth and like the Luzerne, when once rooted, will yield enormously and can be cut twice a year. Prepaid, per lb. 20c; not prepaid, per lb. 12c, peck 60c, bu. (22 lbs.) \$1.95, 100 lbs. \$7.50.

SAND CLOVER OR 'KIDNEY VETCH.

(Anthyllis Vulneraria.)

A deep-rooted herbaceous hardy perennial plant, valuable for dry sands and inferior soils, upon which Red Clover will not thrive. Eaten with avidity by sheep, cattle and horses. Useful in mixture for dry soil. Produces abundance of hay and seed. Sow 20 lbs. of seed per acre. Prepaid, per lb. 35c; not prepaid, per lb. 25c, peck \$3.00, bu. \$10.75, 100 lbs. \$16.75.

SERADELLA.

(Ornithopus Sativus.)

Especially valuable during the hot dry months of summer. Prepaid, per lb. 25c; not prepaid, per lb. 15c, peck \$1.15, bu. (36 lbs.) \$3.95, 100 lbs. \$10.50.

WHITE.

(Trifolium Repens.)

Used for lawns and pastures. Fancy No. 1—Recleaned, Northern grown. Prepaid, per lb. 40c; not prepaid, per lb. 30c, peck \$4.25, bu. \$15.50, 100 lbs. \$25.50. Common No. 2—Mixed with a little Alsike. Prepaid per lb. 35c; not prepaid, per lb. 25c, peck \$3.70; bu. \$14.40; 100 lbs. \$23.50.

YELLOW OR HOP.

(Medicago Lupulina.)

Also called Monthly Clover. Very little known here. Grown more extensively and better known in Germany. It derives its name, "Monthly," because it can be cut three or more times a season. Culture like Red Clover. Prepaid, per lb. 25c; not prepaid, lb. 15c, pk. \$2.10, bu. \$7.50, 100 lbs. \$12.00.

ALFALFA OR LUZERNE.

(Medicago Sativa.)

The Great Drought and Frost Register. Produces 3 to 5 Cuttings a Year.

A perennial clover-like plant growing from 2 to 3 feet high adapted especially to dry climates and soils. It resembles clover in habit of growth and feeding value, but withstands drought much better. Alfalfa thrives on light, sandy, and loamy soils, making rapid early growth, and yielding immense crops, nutritive food for cattle. When once established it furnishes, each season, from 3 to 5 cuttings of forage which cures into excellent hay. It gathers largely of nitrogen from the air and lower soil, and is therefore very valuable in rotations as a soil enricher. Sow from 15 to 25 lbs. per acre.

Salauer Alfalfa. Grown from imported seed. This seed is raised in the North, therefore extremely hardy and we recommend only **Salauer Seed** for our Northern climates. Prepaid, per lb. 30c; not prepaid, per lb. 20c, peck \$2.55, bu. \$9.00, 100 lbs. \$14.50.

American Alfalfa. Cheaper than the imported. Prepaid, per lb. 25c; not prepaid, per lb. 15c; peck \$2.15, bu. \$7.50, 100 lbs. \$12.00.

Turkestan Alfalfa. See page 44.
Sand Lucerne. See page 6.

Prices of Grass and Clover Seed subject to market Fluctuations.



Grass Is King

"No Grass" "No Cattle"
"No Cattle" "No Manure"
"No Manure" "No Crops"



Wernich's Special Grass Mixtures

For Permanent Meadows and Pastures.

The special mixtures which we offer are the results of many years of experience and careful experiment, and we are constantly benefitting by our experience in improving the combinations of the different mixtures offered, as the grasses prove more successful in different mixtures on various soils. We are always glad to give our customers the benefit of our knowledge and experience in these matters, and will cheerfully take pleasure in advising them as to their soils and purposes, if they will correspond with us in regard to same. We have in the following mixtures combined grasses suitable for the various soils and use for which they are recommended. The different mixtures are prepared both as to quantity and varieties best adapted to the soils and situation for which they are recommended.

AT FIRST SIGHT \$2.00 to \$3.00 per acre appears to be a high price for the seeding of a meadow or pasture with our A. B. and C. Mixtures, but bear in mind its **permanency** we have in view, and in the end it is a **saving** of over **100 per cent.** over seeding with Timothy and Clover only.

What Our customers say:

IN ARKANSAS.

Mixture No. 13 which I bought of you has proven to be just the thing for my land. Big crop of Hay.
JOS. GRUNERT.

IN IOWA.

The Grass Mixture I bought of you done well and produces big crops.
H. BASTIAN.

IN WYOMING.

Seed I bought of you seems to be just what was needed on my soil.
A. ZULLIG.

IN MICHIGAN.

The Pasture Seed I got from you will turn out more feed than anything I ever saw.
JOHN McPHAIL.

IN PENNSYLVANIA.

The No. 1 Mixture you sent me is up and doing fine. Will want more next year.
PETER KLAES.

IN WASHINGTON.

Am well pleased with the Mixture of Grasses bought of you. It stood fine and produced an enormous quantity of Hay.
H. BERGER.

IN WISCONSIN.

Land which for years would not yield hay enough to pay for the Seed we put in, has given us a tremendous crop of hay this season from your Grass Mixtures sown in the fall of 1899. All my neighbors admire the field, and no doubt many will order Seed from you.
JUNKE BROS., Dousman.

PERMANENT MEADOWS.

No. 1. For High and Dry Land, rather Light, Poor Soil.

Tall M'd'w Oat Grass	18 lbs. per acre.
Orchard Grass.....	@ 10c lb..\$1.80
English Rye Grass...	100 lbs....\$9.00
Kentucky Blue Grass.	
Red Clover.....	
Mammoth Clover....	

No. 2. For High and Dry Land, Heavy Soil.

Red Fescue.....	16 lbs. per acre.
Tall M'd'w Oat Grass	@ 12½c lb.\$2.00
Italian Rye Grass...	100 lbs...\$11.25
Rough Stalked M'd'w.	
Yellow Oat Grass...	
Luzerne & Red Clover	

No. 3. For Low Land, Good and Rich Soil.

Meadow Foxtail....	16 lbs. per acre.
Creeping Bent.....	@ 13c lb..\$2.08
Orchard Grass.....	100 lbs...\$12.50
Sweet Vernal.....	
Meadow Fescue.....	
Alsike Clover.....	

No. 4. For Peat Bottom.

Meadow Foxtail....	16 lbs. per acre.
Creeping Bent.....	@ 12½c lb.\$2.00
Meadow Fescue.....	100 lbs...\$11.25
Red Clover.....	
Alsike Clover.....	

No. 5. For Low Land which is Flooded at times.

Creeping Bent.....	18 lbs. per acre.
Tall Fescue Grass...	@ 13c lb..\$2.34
Red Top.....	100 lbs...\$12.50
Fowl Meadow.....	
Alsike Clover.....	

No. 6. For Swamps.

Water Meadow Grass	10 lbs. per acre.
Water Fescue Grass.	@ 18c lb..\$1.80
Tall Fescue Grass....	100 lbs...\$16.00

What our customers say:

IN NEBRASKA.

Bought Pasture Mixture from you four years ago which has given me the best Pasturage in years.
JOHN REIST.

IN MINNESOTA.

With pleasure I can recommend your Pasture Mixture. Sowed 900 lbs. in the Spring of 1900 and in October of the same year my cattle had full range over the entire field and the way they thrived would do anyone's heart good to see them. Am still using this pasture which shows no signs of giving out.
G. KNIPS.

IN KANSAS.

The Grass Seed I bought of you last year done splendidly and will bring you many orders from neighbors next spring.
GEO. RIPKE.

IN CONNECTICUT.

Grass Mixture turned out very satisfactory. Will order more next year.
W. SCHMITZ.

IN CANADA.

Am well satisfied with your Seeds and the prompt way of doing business.
ANDR. ZUEHLKE.

IN ILLINOIS.

Your Grass Mixtures have given splendid results and can recommend them highly.
JOHN HERBERT.

IN NEW MEXICO.

The Grass Seed I bought of you done splendid.
MATH. NOCK.

B-MIXTURE FOR PERMANENT PASTURES.

No. 7. For High and Dry Land, rather Light, Poor Soil.

Meadow Foxtail....	
Orchard Grass....	
Timothy.....	
Rough Stalked	20 lbs. per acre.
Meadow.....	@ 10c lb...\$2.00
Meadow Fescue....	100 lbs ....\$9.00
English Rye Grass.	
Red Clover.....	
White Clover.....	

No. 8. For High and Dry Land, Good Soil.

Meadow Foxtail....	
Orchard Grass....	
Timothy.....	
Rough Stalked	20 lbs. per acre.
Meadow.....	@ 10c lb...\$2.00
Meadow Fescue....	100 lbs ....\$9.00
English Rye Grass.	
Italian Rye Grass.	
Luzerne.....	
White Clover.....	

FREE! CAHOON'S BROADCAST SEED SOWER.



Broadcasts 16 to 40 feet Wheat,
Rye, Oats, Barley, Timothy,
Clover, Millet, etc.

Price, \$2.75, or free with
every purchase of our Grass Mix-
tures, (excepting the "D" Mix-
tures on bottom of page) to the
amount of \$30.00.

No. 9. For Low and Wet Pas- tures.

Tall Fescue Grass..	
Red Top.....	
Orchard Grass....	18 lbs. per acre.
Rough Stalked	@ 12½c lb. \$2.25
Meadow.....	100 lbs ..\$11.25
Creeping Bent....	
Timothy.....	
Alyske Clover.....	

No. 10. For Improving or Seed- ing a Marsh.

Water Fescue	10 lbs. per acre.
Grass.....	@ 15c lb...\$1.50
Tall Fescue Grass..	100 lbs ...\$13.50
Red Top.....	

No. 11. For Improving or Seed- ing a New Pasture in the Woods or Shady Places.

Wood Hair Grass..	
Orchard Grass....	
Kentucky Blue	
Grass.....	18 lbs. per acre.
Crested Dog's Tail.	@ 12½c lb. \$2.25
Tall Meadow Oat	100 lbs ..\$11.25
Grass.....	
Sweet Vernal.....	
Wood M'd'w Grass	
White Clover.....	

C-MIXTURE FOR SPECIAL PURPOSES.

No. 12. For Side Hills, to avoid Sliding or Washing off.

Bromis Inermis....	16 lbs. per acre.
Creeping Bent....	@ 18c lb...\$2.88
Wood Hair Grass..	100 lbs ...\$16.00
White Clover.....	

No. 13. For Black Soil, wet in the Spring and dry in the Summer.

Crested Dog's Tail.	
Sweet Vernal.....	18 lbs. per acre.
Italian Rye Grass..	@ 12½c lb. \$2.25
Blue Grass.....	100 lbs ..\$11.25
White Clover.....	

No. 14. For Sand and Gravel Hills.

Wood Hair Grass..	
Sand Luzerne.....	16 lbs. per acre.
Sheep's Fescue....	@ 15c lb...\$2.40
Hard Fescue.....	100 lbs ..\$13.75
Yellow Clover.....	

No. 15. For Sheep Pasture, High and Dry Land.

Wood Hair Grass..	
Crested Dog's Tail	16 lbs. per acre.
Sweet Vernal.....	@ 12½c lb. \$2.00
Blue Grass.....	100 lbs ..\$11.25
Sheep's Fescue....	
White Clover.....	

No. 16. Extra Mixture for a Hog Pasture.

Red Clover.....	
Mammoth Clover..	16 lbs. per acre.
Alyske Clover.....	@ 12½c lb. \$2.00
Creeping Bent....	100 lbs ..\$11.25
Timothy.....	

GET A THOMSON'S WHEELBARROW SEEDER FOR NOTHING.



Sows Clover, Timothy, Millet,
Alfalfa, Flax, Grain, etc. Sows
40 to 60 acres a day. Wind can-
not interfere in the sowing with
this machine. Weight, 40 lbs.

Price, \$7.25, or FREE with
every purchase of our Grass Mix-
tures (excepting the "D" Mix-
tures on the bottom of page) to
the amount of \$100.00.

THE QUANTITIES

as given per acre with A. B. and
C. Mixtures are the minimum.
Our advice always is that Grass
Seed CANNOT be sown too thick
therefore we recommend that
half again as much per acre will
do more good than harm. Or you
can add 5 to 10 pounds of Timo-
thy to above mixtures per acre.

No. 17. For Two Crops of Hay and Hog Pasture.

Crimson Clover....	14 lbs. per acre.
Italian Rye Grass..	@ 11c lb...\$1.54
Creep. Bent Grass..	100 lbs ...\$10.50

No. 18. Wernich's Special Mix- ture.

For soils where it is hard to de-
termine what Grasses or Clovers are
adapted to grow.

11 Variet. Clovers..	18 lbs. per acre.
26 Variet. Grasses.	@ 10c lb...\$1.80
	100 lbs ...\$9.50

No. 19. Extra German Mixture.

Land that has been used for bar-
ley and oats for years, and is to be
turned over for meadow, can be
sown with this mixture and obtain
good results.

Red Clover.....	
Timothy.....	18 lbs. per acre.
Meadow Fescue....	@ 10c lb...\$1.80
Orchard Grass....	100 lbs ...\$8.75
English Rye Grass.	

No. 20. Special Mixture, Plenty Fodder.

If sown in April this mixture will
yield 1½ to 2 tons of hay the latter
part of June, and about 1½ tons in
August and leave enough pasture.

Lbs.	
Hungar. Grass, 24	40 lbs. per acre.
Ital. Rye Grass, 6	@ 5½c lb..\$2.20
Crimson Clover, 10	100 lbs ...\$5.25

No. 0. For a Prairie.

Creep. Bent Grass.	
Meadow Fescue....	18 lbs. per acre.
Orchard Grass....	@ 12½c lb. \$2.25
Tall M'd'w Oat....	100 lbs ..\$11.25
Crimson Clover...	
Red Clover.....	

D-CHEAP HAY AND PASTURE MIXTURES.

	50 lbs. 100 lbs.
Crimson Clover and Timothy..	\$2.75 \$5.25
Red Clover and Timothy....	3.75 7.00
White Clover and Timothy..	5.50 10.75
Alyske Clover and Timothy..	4.00 7.75
Yellow Clover and Timothy..	4.00 7.50

Just the thing for
Reseeding Old Mead-
ows and Pastures for
One to Three Years.

	50 lbs. 100 lbs.
Alfalfa Clover and Timothy..	\$3.75 \$7.00
Mammoth Clover & Timothy.	3.75 7.00
Mixed Clovers and Timothy.	3.75 7.25
Mixed Grass Seeds & Tim'y..	4.50 8.50
Mixed Clov's, Grass & Tim'y.	4.25 8.25

ROLL YOUR GRASS LANDS.

Rolling both hay and grazing fields with a heavy roller at frequent intervals throughout the year is of decided benefit, as it causes the grass roots to strike deeper, thus making a better growth of grass, and, at the same time, it enables the grass to withstand droughts much better than when not so rolled. We strongly recommend our customers to practice this rolling more frequently and they will find the results eminently satisfactory. The best time to roll hay field is immediately after cutting, and also early in the spring, before the grass gets a good start.

FOR SOILING USE RECLEANED BONE MEAL, See Page 74.



FOR TOP DRESSING USE "T SPECIAL" FERTILIZER, See Page 74.

Wernich's Lawn Grass Mixtures.

HOW TO SECURE A GOOD LAWN.

The principal features to secure a good lawn are: First, a rich, well drained soil; second, careful preparation of the ground, making it as fine, smooth and mellow as possible; third, a wise selection of seeds; fourth, sowing at such a time as to give the young plant time to become well established before being subject to very dry or very cold weather. Seeding may be done in spring or fall. If done during the hot months of summer, the ground must be kept moderately moist when sowing is done. With the ground prepared well, let the surface be gone over with a fine rake, and the seed evenly scattered, after which carefully rake or brush the seed in and follow with a roller.

The Special Mixtures here offered have been prepared with a view to overcoming difficulties that have hitherto existed in getting grass to grow on steep slopes, in the shade, etc., where the grasses ordinarily used would not succeed.

SEED REQUIRED.

25x25 feet, or 625 square feet.....	1 pound	50x50 feet, or 2,500 square feet.....	1 peck
100x100 feet, or 10,000 square feet.....	1 bushel	Per acre	4 bushel

Wernich's "Fine Mixed" Lawn Grass.

A mixture containing cheaper grades of grass seeds than our "Peerless Lake Park Mixture." Prepaid, $\frac{1}{2}$ lb., 15c; lb., 30c; pk., 95c. Not prepaid, $\frac{1}{2}$ lb., 10c; 1 lb., 20c; pk., (3 $\frac{1}{2}$ lbs.) 65c; bu., (14 lbs.) \$2.50; 4 bu., \$9.00; 100 lbs., \$17.50.

Wernich's "Lake Park" Lawn Grass.

This excellent mixture is composed of only the finest Dwarf Growing Recleaned Grass Seeds, mixed in proper proportions. This mixture is the same as is used in our Milwaukee Public Parks. Prepaid, $\frac{1}{2}$ lb., 20c; lb., 35c; peck, \$1.10. Not prepaid, $\frac{1}{2}$ lb., 15c; lb., 25c; peck, (3 $\frac{1}{2}$ lbs.) 80c; bu., (14 lbs.) \$3.00; 4 bu., (enough for 1 acre) \$10.50; 100 lbs., \$19.00.

"Terrace Sod" Lawn Grass.

A special mixture of grasses best suited for sowing on terraces, railroad embankments and side hills—grasses that produce strong spreading roots, thus preventing heavy rains from washing them out; that will withstand drought and exposure, thrive on shallow soils, and at the same time produce a rich, velvety green turf throughout the season. Prepaid, $\frac{1}{2}$ lb., 25c; lb., 50c; peck, \$1.70. Not prepaid, lb., 40c; peck (3 $\frac{1}{2}$ lbs.) \$1.40; bu. (14 lbs.) \$5.00; 4 bu., \$18.00; 100 lbs., \$32.00.

"Shady Nook" Lawn Grass.

On nearly all lawns there are unsightly bare spots under the shade trees, which have baffled all efforts to get into grass, but with this mixture there need be no further difficulty. Prepaid, $\frac{1}{2}$ lb., 30c; lb., 50c; pk., \$1.70. Not prepaid, $\frac{1}{2}$ lb., 25c; lb., 40c; pk., (3 $\frac{1}{2}$ lbs.) \$1.40; bu., (14 lbs.) \$5.00; 4 bu., \$18.00; 100 lbs., \$33.00.

Catch the Moles in your Lawn with the "OUT O' SIGHT" MOLE TRAP.

It will catch when others fail. Full Particulars with each Trap.

Many of our customers have written us that they have been greatly troubled with moles in their lawn.

The "Out O' Sight Mole Trap" has many advantages over all others. It is designed and built right, easy to set without danger to operator, can be used in hot-beds on account of its height, pedal can be set so sensitive that it is impossible for the mole to pass under the trap without being caught.

See Cut in Lower Left Hand Corner of Above Picture. Price \$1.00. Prepaid \$1.25.



The Following Abbreviations Occur in the Flower

Seed List, viz:

A for **Annuals**, that grow, bloom and die the first year from seed.

B for **Biennials**, that bloom the second year from seed, and then die, although many, if sown early in the spring, will flower the first year.

P for **Perennials**, that usually bloom the second year from seed, and continued to grow and bloom for many years. Some will also bloom the first year, if sown early.

H indicates that they are **Hardy**, and **H H**, **Half Hardy**. **T** indicates that they are **Tender**.

SEEDS FOR SPECIAL PURPOSES.

The following list is useful in making selections of suitable varieties for a given object.

LOW GROWING PLANTS.

For Beds and Edgings.

Ageratum, Agrostemma, Alyssum, Amaranthus, Asperula, Bachelor's Button, Begonia, Browallia, Calceola, Calceolaria, Calliopsis, Campanula, Candytuft, Chrysanthemum, Dahlia, Daisy, Dianthus or Pinks, Escholtzia, Forget-me-not, Gaillardia, Geranium, Gnaphalium, Golden Rod, Heliotrope, Ice Plant, Lobelia, Mignonette, Marigold, Nasturtium, (dwarf),

TALL GROWING PLANTS.

For Backgrounds and Centers.

Adonis, Antirrhinum or Snap Dragon, Aquilegia, Aster, Auricula, Balsam, Calendula, Canna, Castor Bean, Celosia, Cleome, Cosmos, Datura, Delphinium, Digitalis, Hedsysarum, Hollyhock, Helianthus or Sunflower, Jacobaea, Lupinus, Marigold, Mirabilis or Four O'Clock, Nicotiana, Paeony, Primula, Salvia, Stocks, Sweet William, Zinnia.

FOR CONSTANT BLOOM.

Sweet Alyssum, Candytuft, Carnation, Celosia, Escholtzia, Nasturtiums, Petunias, Phlox Drummondii, Pinks, Portulaca, Sweet Peas, Verbena, Zinnia.

FOR VASES AND BASKETS.

Abronia, Alyssum, Asperula, Convolvulus Minor, Kenilworth Ivy, Lobelia, Maurandia, Mimulus, Nasturtium (dwarf) Oxalis, Silene, Smilax, Verbena.

CLIMBERS FOR PORCHES, ETC.

Abobra, Adlumia, Aristolochia, Canary Bird Flower, Clematis, Cobaea, Convolvulus Major, Cypress Vine, Dolichos, Gourds, Humulus or Japan Hops, Lophospermum, Momordica, Moonflower, Nasturtium (tall), Passiflora, Scarlet Runner Beans, Sweet Peas, Wild Cucumber.

FOR FRAGRANT FLOWERS.

Sweet Alyssum, Candytuft, Carnation, Four O'Clock, Heliotrope, Mignonette, Nasturtium, Stocks, Sweet Peas, Verbena, Violet, Wallflower.

THERE IS MONEY FOR YOU in Flower Seeds, and it will pay you to secure your neighbor's orders

WE MAKE THESE LIBERAL DISCOUNTS.

Customers Sending	\$1.00	May Select	\$1.30	{	worth of Flower and Vegetable Seeds in packets and ounces. This discount, however, does not apply to seed by weight ¼ lbs. and over), or collections, nor does it apply to orders sent at different times during the season, except previous arrangement is made, nor does it apply to plants, bulbs, potatoes, grass and field seeds and tools; but customers are allowed to select seeds for the cost of remittance besides these discounts.
	2.00		2.70		
	3.00		4.00		
	4.00		5.50		
	5.00		7.00		

ABOBRA.

Viridiflora.—A very rapid growing and exceedingly beautiful climber, producing dazzling scarlet fruit. (6 feet.) T. A. Pkt....3c

ABRONIA.

Umbellata.—Trailing Plant with Verbena-like and Rosy-lilac flowers. May be trained to sticks or left in its natural mode of growth. Peel off the husk before sowing. H. H. A. Pkt.....5c

ABUTILON.

(Chinese Bell Flower.)

New Hybrids, Mixed.—The plants are of compact growth, flowering continually; suitable for house in winter and garden in summer; producing much larger bell-shaped flowers than the old types—the range of colors includes white, straw, yellow, rose, carmine, crimson, orange and many beautifully striped varieties. 2 to 4 feet. T. P. Pkt.....10c

ADLUMIA.

(Mountain Fringe, or Allegheny Vine.)

Cirrhosa.—An attractive climber. The flowers are flesh-colored and form a fine contrast to the pale-green foliage of the plant. Height 15 feet. H. B. Pkt.....5c



Abronia.



Adlumia.



Agrostemma.



Ageratum, Little Dorrit.



Amaranthus Solicifolius.



Asperula.

ADONIS.

Aestivalis (Flos Adonis). Ornamental garden annual, of easy culture, flowering freely; graceful feathery foliage. Crimson. H. A. 1 foot. Pkt.....5 cts.

AGERATUM.

Annuals bearing continuously and profusely, clusters of feathery flowers; suitable for pot culture in winter or bedding out in summer. H. A.

Little Dorrit. Fine white flowers; 18 inches. Pkt.....3 cts.
Tom Thumb. Very dwarf, blue flowers; 6 inches. Pkt.....3 cts.

AGROSTEMMA.

Coeli Rosea (Rose of Heaven). Attractive, producing flowers on long slender stems like a single pink; blooms the first season. H. A. 1 foot. Pkt.....5 cts.

ALYSSUM.

These flower profusely throughout the season, thriving in flower garden, window boxes, vases, etc.; also well adapted for ribbon lines and edgings; very fragrant.

Little Gem. Grows quick from seeds and the plants will bloom when quite young. The abundance of flowers is simply enormous; 300 blossoms have been counted on a single plant. H. A. ¼ oz., 10c; oz., 25c.; pkt.....3 cts.

Golden Saxatile. A free growing, dwarf, hardy perennial. Flowers brilliant golden yellow, completely hiding the foliage. Showy for permanent borders and beds. H. P. 10 inches. Pkt.....5 cts.

AMARANTHUS.

Ornamental foliage and flowering annuals of rapid growth, easy culture and very showy, with flower spikes of richly colored foliage. T. A.

Caudatus (Love-lies-bleeding). Long, dark red drooping flower spikes. 3 feet. Pkt.....5 cts.

Salicifolius. (Fountain Plant). Gracefully drooping, willow-shaped leaves, banded and tipped with orange, carmine and bronze. 2 to 3 feet. Pkt.....5 cts.

Tricolor. (Joseph's Coat). Leaves red, yellow and green. 3 feet. Pkt.....5 cts.

Mixed. All varieties. Pkt...3 cts.

AMPELOPSIS.

Veitchii. (Boston or Japan Ivy.) Valuable hardy perennial climber; clinging to walls of wood, brick or stone; foliage dense, of glossy green, changing to red and yellow in autumn. H. P. 30 feet. Pkt....10 cts.



Adonis.



Asparagus Plumosus.



Aristolochia.

ANTIRRHINUM.

(Snap Dragon.)

For summer flower beds and borders these half-hardy perennials are very showy, and flower from seed the first season. They grow 1 to 3 feet high, and are masses of bloom. H. H. P.

Tall, Mixed Colors. Selfs and stripes. 2 to 3 feet. Pkt.....5 cts.

Giant-Flowering. The flowers are nearly double the size of the older sorts. 2 to 3 feet. Pkt.....10 cts.

Tom Thumb Varieties Mixed Colors. Only 1 foot high. Pkt. 5 cts.

AQUILEGIA, OR COLUMBINE.

Hardy perennials, luxuriating in the moister situations in the garden, where they form permanent clumps, growing from 1½ to 3 feet high. The large, unique, long-spurred flowers, gracefully hung on long stems, are not only brilliantly effective on the plant, but equally as desirable when cut for vase and house decoration. H. P.

Alba (White Spurred). A beautiful pure white variety. 3 feet. Pkt 10 cts.

Chrysantha (Golden Spurred). Bright golden yellow. 3 feet. Pkt.....10 cts.

Glandulosa. Lovely shade of light blue and pure white. 2 feet. Pkt.....10 cts.

Double, all colors mixed. Oz., 30 cts.; pkt.....5 cts.

ARISTOLOCHIA SIPHO.

Dutchman's Pipe Vine.

Rapid, luxuriant, hardy perennial climber; large leaves, making dense shade; flowers yellow and brown.

Sipho-Dutchman's Pipe. H. P. 30 feet. Pkt.....10 cts.

ASPARAGUS SPRENGERI

Also called Emerald Feather and Abyssinian Parlor Fern.

New. Perhaps the best new plant introduced in ten years. Highly praised everywhere; handsomest seen drooping from a pot or basket. Sprays from four to six feet long, of fresh, green, feathery foliage; useful for bouquets, wreaths or sprays, remaining perfect for weeks after cutting; grows freely the whole year round. Extremely valuable for all purposes. Flowers white, followed by red berries. A plant that will please you. T. P. Pkt., (15 seeds).....10 cts.

ASPARAGUS PLUMOSUS

Asparagus Fern. One of the prettiest house plants. The leaves are bright green, gracefully arched, surpassing Maidenhair Ferns in grace, delicacy of texture and richness of color. It is admirably adapted to house culture. T. P. Pkt. (5 seeds), 10 cts.; 25 seeds.....35 cts.



Comet or Poodle Asters.

ASTERS.

When almost all other flowers of the summer have passed, Asters come into bloom. For that reason, as well as on account of their very beautiful flowers of varied form and color.

They may be sown in the open ground after danger from frost is past. Stronger plants and earlier flowers can be obtained by sowing in a light window, hot bed or greenhouse. They require rich, loamy soil, and in dry weather should be mulched with well rotted manure to produce large flowers, yet they will succeed admirably in the most ordinary garden soil. H. A.

DWARF VICTORIA.

This is one of the best semi-dwarf Asters in existence. The flowers are very large, are borne on upright stems, are of ideal form, and the colors are of the richest and daintiest hues. There are color combinations and shadings in this class of Asters not found in any other class. Height, 10 inches.

Pure White. Pkt.....8 cts.
Crimson. Pkt.....8 cts.
Purple Violet. Pkt.....8 cts.
Light Blue. Pkt.....8 cts.
Scarlet. Pkt.....8 cts.
Peach Blossom. Pkt.....8 cts.

Imported collection of the above six packets, 40 cts.

Dwarf Victoria Mixed. Pkt.8 cts.

PAEONY FLOWERED PERFECTION.

For size of flowers, beauty of colors and habit of plant, this Aster is almost unrivalled. Flowers are incurved like those of a paeony, and of beautiful form with rich, brilliant colors. Plants grow about two feet high, stout and vigorous.

Pure White. Pkt.....8 cts.
Rose and White. Pkt.....8 cts.
Purple Violet. Pkt.....8 cts.
Light Blue. Pkt.....8 cts.
Dark Blue. Pkt.....8 cts.
Crimson. Pkt.....8 cts.

Imported collection of above six packets, 40 cts.

Paeony-Flowered Mixed. Pkt.8c
COMET OR POODLE.

Next to the above, the Comet is the handsomest of tall growing Asters. The flowers are handsome, very attractive, with long, curled and twisted petals formed into a large globe-shape. All are produced on long stiff stems, making these Asters useful for corsage bouquets as well as for cut flowers.

Mixed. Pkt.....10 cts.

DWARF OSTRICH FEATHER.

Of dwarf bushy habit, 8 inches in height, candelabra shaped and of elegant form. Flowers are of immense size with very long gracefully curled petals, very imposing in appearance.



Aster, "The Bride."



Samples Branching Asters.



Prize Balsams.

SPECIAL OFFER.

The five varieties of flowers shown on this page for 40 cts.



Paeony Flowered Asters.

ASTERS—Cont'd.

"The Bride." White changing to rose. Pkt.....25c.

SEMPLS TALL BRANCHING.

This is a strong grower and having a tendency to form numerous branches it should have more room than the ordinary Aster. The plant continues to grow later in the season than any other variety and blooms correspondingly late, thus giving its crop of novers in late autumn when there is a scarcity of bloom.

White. Pkt.....10 cts.

Pink. Pkt.....10 cts.

Lavender. Pkt.....10 cts.

Crimson. Pkt.....10 cts.

Carmine. Pkt.....10 cts.

Purple. Pkt.....10 cts.

The above six packets for 50 cts.

Samples Mixed. Pkt.....10 cts.

ASPERULA.

Odorata. (Woodruff.) This charming little plant, which blooms in May and is a hardy perennial, delights in moist and shady situations and is used for border planting. 9 inches. H. P. Pkt.....10 cts.

Azurea Setosa. Small, sweet-scented, light blue flowers. 1 foot. H. A. Pkt.....5 cts.

AURICULA.

The flowers which resemble the Primrose somewhat, are of various shades of crimson, yellow, maroon, etc.

Extra Choice Mixed. H. P. 6 inches. Pkt.....15 cts.

BACHELOR'S BUTTON.

Bachelors' Button.

(See Centaurea. Page 53.)

BALSAMS.

Wernich's Prize. We have no hesitancy in pronouncing this strain the finest in cultivation. The flowers are very large, measuring from two to three inches in diameter, of perfect form, resembling the flower of the Camellia, and are as double. In fact, the petals are so densely produced that the yield of seed is extremely small, one single plant often producing not more than five seeds.

Pure White. Pkt.....5 cts.

Rose. Pkt.....5 cts.

Prince Bismark. Salmon Rose.

Pkt.....5 cts.

Scarlet. Pkt.....5 cts.

Lilac Rose. Pkt.....5 cts.

Dark Blue. Pkt.....5 cts.

The above six packets for .25 cts.

Wernich's Prize Mixed. Pkt.5 cts.

BELLIS.

Daisy.—(See page 54.)



Double Carnation.



Calendula.



Calliopsis.



Chrysanthemum Japonicum.

BEGONIA.

Magnificent flowering pot plants, and deservedly popular for garden bedding, flowering in the greatest profusion all summer.

Single, Large-Flowering, Mixed Colors. From choicest erect-flowering varieties. Pkt. 25 cts.

Double, Large-Flowering, Mixed Colors. From prize varieties. Pkt. 50 cts.

Rex. Large, ornamental leaves of dark green, bronze, gold, red, etc. Pkt. 25 cts.

BROWALLIA (AMETHYST).

Handsome annuals, with blue or white flowers completely studding the bushy plants during the whole summer; fine for garden beds in summer or pot culture in winter. H. H. A. 1½ feet.

Mixed Colors. Pkt. 5 cts.

CACALIA.

Tassel Flower.

Very pretty, summer-flowering garden plants. Prized for cutting. H. A. 1½ feet.

Mixed Colors. Pkt. 5 cts.

CACTUS.

Sow in flat pans or flower-pot saucers filled with sand, keep moderately moist and cover with a piece of glass, or a tumbler. The best way is to place the pan or saucer in which the seeds are planted into one of larger size, which can be kept full of water, thus assuring the required moisture. H. H. P. Mixed. Pkt. 15 cts.

CALCEOLARIA.

Unsurpassed for the green-house or conservatory, producing flowers in great variety. The blooms are remarkable for their oddness of shape, and for their richness, diversity and variety of color. T. P. 1 foot. Pkt. 25 cts.

CALENDULA.

Dwarf, bushy annuals, blooming abundantly until frost; of easy culture; indispensable for summer garden or for pot culture in the winter. H. A. 1 foot.

Meteor. Yellow, striped with orange. Oz., 20 cts.; Pkt. 5 cts.

Prince of Orange. Orange, striped light yellow. Oz., 25 cts.; Pkt. 5 cts.

Pluvialis. Single, pure white. Oz., 25 cts.; Pkt. 5 cts.

Mixed. Oz., 20 cts.; Pkt. 5 cts.

CALLIOPSIS.

Finest Mixed. Showy garden annuals, with large bright flowers borne in great profusion from early summer until frost. Height about 2 feet. H. A. 1 to 2 feet. Oz., 20 cts.; Pkt. 5 cts.



Cacalia.



Celosia Plumosa.



Calceolaria.

Special Offer.

The 7 Choice Flowers shown on this page for 40c.

CAMPANULA.

"Cup and Saucer" Canterbury Bells. (Campanula Calycanthema.) Beautiful flowers 3 inches in length, saucers 3 to 4 inches across. The plants form perfect pyramids of bloom about 24 inches high, and they bear frequently from 100 to 200 of these exquisite blossoms for weeks during the early summer. H. B. 2 feet. Mixed. Pkt. 5 cts.

CANARY BIRD VINE.

A beautiful climber, the charming little canary-colored blossoms bearing a fancied resemblance to a bird with its wings half expanded. H. H. A. 10 feet. Oz., 30 cts.; Pkt. 5 cts.

CANDYTUFT.

Dwarf annuals, flowering profusely throughout the whole season; great favorites for beds, edgings, pots and borders; the plants are very fairly covered with blossoms, and of the easiest culture. H. A. 12 inches.

Dwarf Carmine. Pkt. 5 cts.

Dwarf Lilac. Pkt. 5 cts.

Dwarf Mixed. Pkt. 5 cts.

"Empress" or Giant White Hyacinth-Flowered. A grand variety, producing enormous spikes of bloom, resembling a white Hyacinth. These spikes often measure 7 inches long by 2¼ inches in diameter; plant in bloom, 12 inches high. (See cut on preceding page.) Pkt. 5 cts.

CANNA.

Cannas are stately with handsome foliage and showy flowers. The seeds are extremely hard and it is advisable to file through the hard outside covering; soak in warm water several hours before planting. The roots may be wintered in the cellar—the same as Dahlias. T. P.

Madam Crozy, Finest Mixed. Oz., 50 cts.; Pkt. 5 cts.

CARNATIONS.

The most magnificent of all the pink family, and are general favorites for their delicious fragrance and richness of color. Seed may be sown under glass in spring, or in the open ground. H. H. P.

Wernich's Double Perfection Mixed. Saved from a rich collection of mixed flowers. Pkt. 15 cts.

Early Red Grenadin. For yielding a quantity of double red flowers, there is no outdoor Carnation that can equal it. Pkt. 5 cts.

Carnations, Fine Double Mixed. Sweet-scented sorts, large double flowers. Pkt. 5 cts.

Margaret Carnation. This Carnation blooms in four months from sowing. Flowers are larger, and the variety of colors is infinitely greater. Pkt. 5 cts.



Cineraria.



Clematis.



Cobaea Scandens.



Convulvulus Minor.

CELOSIA OR COCKSCOMB.

Interesting and brilliant annuals so as to resemble a cock's comb, of tropical origin. Are finely cut. H. H. A.

Cristata Coccinea. Dwarf crimson, fine, 1 foot. Pkt.....5 cts.

Glasgow Prize. Very dwarf; immense crimson combs. 1 foot. Pkt.....5 cts.

Ostrich Plumed, Mixed Colors. Plumes of crimson, orange, yellow, rose, etc. 3 feet. Pkt.....5 cts.

All three Pkts. (one of each) for 10 cts.

CENTAUREA.**Bachelor Button.**

Thanks to the praiseworthy fashion of late years of using, as far as possible, only long-stemmed flowers for bouquets, the Centaurea has become a general favorite.

Emperor William. Handsome blue color. H. A. Pkt.....5 cts.

Cyanus. Double mixed. H. A. Pkt. 3c.

CHRYSANTHEMUM.

Showy and effective garden favorites, extensively grown for cut flowers. The hardy annuals are summer-flowering border plants; good for pot-culture, distinct from autumn-flowering varieties.

Annual Varieties.

Lord Beaconsfield. Single Red. Pkt. 3c.

Coronarum. Double White. Pkt. 3c.

Coronarum. Double Yellow. Pkt. 3c.

Mixed Annuals. Pkt.....3c.

All four packets 10 cts.

Perennial Varieties.

Japonicum. Fl. pl. New Japanese varieties. Pkt.....10 cts.

CINERARIA.

Wernich's International Mixture. This is a mixture of the finest English, French and German strains, the flowers are very large, from 7 to 9 inches in circumference and in the most brilliant colors. Pkt.10 cts.

Maritima. (Dusty Miller.) Extensively used for ribbon-planting, vases, hanging baskets, etc.; leaves silver gray; although perennial, it is grown as an annual. H. H. P. Pkt.....5 cts.

CLARKIA.

Charming garden annuals. The flowers of rose, white, red, purple, etc., borne in profusion. H. A. 1 to 2 feet.

Double Mixed. Pkt.....5 cts.

CLEMATIS.

A well-known and rapid growing, free flowering climber. Seed should be sown in the fall or winter in shallow boxes in the usual way, and when an inch or two high, transplant into boxes or small pots preparatory to planting in the open ground. H. P.

Jackmanii Varieties. Flowers 3 to 4 inches across. Mixed. Pkt.....25 cts.



Clarkia.



Cyclamen.



Cyperus.

SPECIAL OFFER.

**THE 7 CHOICE
FLOWERS ON
THIS PAGE.**

CLEOME PUNGENS.**Giant Spider Plant.**

Grows freely from seed sown in the open ground during April or May; height, about 4 feet. The flowers are very showy, with long, slender stamens and rose-colored petals, combined with the long, slender seed pods, give it the effect of a long and many-legged spider, with the flowers for a head. T. B. Pkt.5 cts.

COBAEA.

Magnificent rapid growing climber, often growing 20 to 30 feet in one season. The seed should be planted edge down and no water given unless the soil becomes very dry. T. P.

Scandens. Blue. Pkt.....5 cts.

Albo. White. Pkt.....10 cts.

COLEUS.

Grown either in the garden or in pots. They are very handsome. Easily raised from seed if planted in good soil and watered plentifully. The color combinations are remarkably beautiful and make as handsome a foliage plant as can be obtained from seeds.

Hybrida. Pkt.....15 cts.

CONVULVULUS.**Morning Glory.**

See page 56.

COSMOS.

Giant Fancy. The plants, 5 to 6 feet high, are one mass of feathery green foliage, gemmed with large single flowers of white, pink or crimson, enlivening the garden long after more tender flowers have succumbed to early frost. For bouquets and vases this is one of the finest flowers grown. Flowers often 5 inches in diameter. H. H. A. Pkt.....10 cts.

CYCLAMEN.

Valuable pot plants with orchid-like blossoms of great variety and beauty of coloring, varying from the purest white to the darkest crimson. They can be grown from seed and brought to flower in about 11 months from the time of sowing. H. H. P. 1 foot.

Giganteum Mont Blanc. Snow white, large. Pkt.....25 cts.

Giganteum. Dark Red. Pkt....25 cts.

Giganteum Roseum. Lovely pink. Pkt.25 cts.

Persicum Giganteum. Finest mixed. The flowers measure from 2 to 2½ inches in length. Pkt.....25 cts.

CYPERUS ALTERNIFOLIUS

Umbrella Plant. A strikingly handsome foliage plant, easily raised from seed. T. P. Pkt.....10 cts.

CYPRESS VINE.

For training upon a light ornamental trellis the Cypress Vine cannot be excelled. It has a profusion of scarlet or white star-shaped blossoms, and its finely-cut foliage is particularly adapted to ornamental work. Good for ten feet; if planted fairly thick in a good soil will make a dense screen of the most exquisite foliage and flowers. H. H. A. 15 feet.

Scarlet. Pkg.....5 cts.
White. Pkt.....5 cts.
Ivy Leaved. Pkt.....5 cts.
Pink. Oz., 25 cts. Pkt.....5 cts.

DAHLIA.

Many people are not aware that Dahlias from seed sown in the spring will bloom beautifully the first summer, and give good satisfaction. We would advise starting seed under glass, and transplanting to the garden in good rich soil the 1st of May. H. H. P.

Double Large Flowering. Mixed. Pkt.....10 cts.
Pompon Mixed. Pkt.....10 cts.
Cactus Mixed. Pkt.....10 cts.

DAISY.**Bellis Perennis.**

Plants of Double Daisy will bloom the first summer, and will continue to bloom for years if given slight protection during winter. They commence blooming in April and continue to bloom until summer. They are not very particular as to soil, but should be grown where they have partial shade.

Maxima. Double Giant, red.....10 cts.
Snowball Daisy. Long stem and large double flowers. Pkt.....10 cts.
Longfellow. Dark pink flowers, usually large and double; very long and stiff flower spikes. Pkt.....10 cts.
All three, one packet each, for 25 cts.
Double Mixed. Pkt.....10 cts.

DATURA.**Trumpet Flower.**

An attractive plant with large foliage and a vigorous growth, producing a succession of large trumpet-shaped flowers, larger than a Calla Lily and having a faint perfume. H. A. 3 feet.

Cornucopia—Horn of Plenty. The flower is immense, often 10 inches long and 5 inches wide at the mouth, and conical, having 3 cones, one within the other, each with spreading, wavy margins. Color is fine purple-white. Pkt.....10 cts.
Double Mixed. Oz., 40 cts.; Pkt. 5 cts.

DIANTHUS OR PINKS.**Hardy Garden Pinks.**

The Pinks may be ranked amongst the fairest gems of our flower gardens, and are deserving of their great popularity. One foot high. H. B.

Chinensis. (China or India Pink.) Superb varieties, double mixed. Oz., 30 cts.; Pkt.....5 cts.

Heddewigii. Mixed Colors. (Single Japan Pinks.) Magnificent flowers, 2 to 3 inches across, broad and round, and of many exquisite colors; blotched, splashed and spotted. Pkt.....5 cts.

Plumarius. Double Mixed. Double-fringed fragrant flowers of white, crimson or purple shades, spotted and variegated; 12 inches high. Pkt.....10 cts.

DIGITALIS.**Foxglove, or Witches' Fingers.**

Ornamental hardy border plants, easy culture, having long spikes of showy flowers. 3 to 5 feet. H. P.

Fine Mixed. Pkt.....5 cts.

DOLICHOS LABLAB.**Hyacinth Bean.**

A rapid-growing climber of easy cultivation, bearing a profusion of pea-shaped purple blossoms; the seed-pods are of a beautiful deep purple shade in fall. Sow in the open ground in April. H. H. A. 10 feet. Pkt.....5 cts.



Edelweiss.



Double Dahlia.



Digitalis.



Ferns.

EDELWEISS.

The true and famous Edelweiss of the Alps. The flowers are of downy texture, pure silver-white and star-shaped. Succeeds in almost any not too rich soil, with full exposure to the sun. H. P. Pkt.....10 cts.

ESCHSCHOLTZIA.**California Poppies.**

Beautiful and popular garden annuals of easy culture, forming nice bushy plants, 1 foot high.

Alba. Pure white. Pkt.....5 cts.
Mandarin. Large bright scarlet; interior orange. Pkt.....5 cts.
Rosea. Rose. Pkt.....5 cts.
Mixed. Oz., 30 cts.; Pkt.....5 cts.

EVERLASTINGS.

(See page 62.)

FERNS.

No prettier ornament can be imagined than a vase or assorted Ferns for the parlor, or what is handsomer in the conservatory than pots and hanging baskets of the various kinds? Or along the shady side of a house?

Hardy Perennial Varieties. Mixed. Pkt.....15 cts.

FORGET-ME-NOT.**Myosotis.**

An old favorite. It flourishes best in a moist, shady situation and is in constant bloom nearly the whole season. If sown in boxes in the house early, will flower the first season. 6 to 12 inches. H. H. P.

Alpestris Alba. Pure white. Pkt. 5c.

Victoria. Forms a neat compact bush about six inches high, that at all times during the season is one mass of sky blue flowers with yellow centers. Pkt.....5 cts.

Palustris. A bed of this when abloom in spring is a lovely sight, a sheet of sky-blue flowers, 6 inches. Pkt.10 cts.
All three, 1 packet each, for 15 cts.

FOUR O'CLOCKS.**Marvel of Peru.**

They are exceedingly fragrant, expanding in the evening and withering the next morning. H. A. 2 feet.

Fine Mixed. Pkt.....3 cts.

FUCHSIA.**Ladies' Eardrop.**

They bloom the first year from seed if sown reasonably early.

Single Mixed. Pkt.15 cts.

Double Mixed. Pkt.25 cts.

GAILLARDIA.

Splendid bedding plants, remarkable for the profusion, size and brilliancy of their flowers, continuing in bloom during summer and autumn.

Mixed. Pkt.10 cts.

GERANIUM.

Well-known popular plants for either pot culture in the winter or summer bedding. 12 to 18 inches high. T. P.

Zonale Varieties. Saved from some of the finest collections and many choice and even entirely new varieties may be expected. Pkt.10 cts.

Double Varieties. Pkt.10 cts.

Lady Washington. Pkt.20 cts.

GLOXINIA.

A magnificent class of house blooming, bulbous plants with handsome, bell-shaped flowers in a diversity of the richest colors. Our international Mixture contains the finest English, French and German strains; produce most beautiful flowers.

French Hybrids. The best strain in existence, embracing all colors, the largest flowers and the latest novelties. Pkt., 25c.

CODETIA.

Showy garden annuals, of compact growth, about 1 foot high, bearing freely flowers 3 to 4 inches across of exquisite colors and shades that glisten in the sunlight like satin. H. A. 1 foot.

Mixed. Pkt.5 cts.

SPECIAL OFFERING.

The 4 Choice Flowers shown on this Page for 30c.

GOLDEN ROD.

Solidago Canadensis. By many looked on as the National Flower of America; flowers golden yellow, height 2 feet. H. P. Pkt.5 cts.

GOURDS.

These are rapid growing climbers, therefore desirable for many places where an immense amount of vine is wanted quickly. If you have an old tree, dead or nearly so, Gourds will cover it to perfection.

Towel Gourd, or Luffa. Many ladies prefer a dish cloth made of this Gourd to anything else, as it is always sweet and clean as long as any part of it is left. Pkt.5 cts.
Hercules Club. Pkt.5 cts.
Nest Egg. Pkt.5 cts.
Bottle-shaped. Pkt.5 cts.
Mock Orange. Pkt.5 cts.
Apple-shaped. Pkt.5 cts.
 All five varieties. 1 pkt. each, for 15 cts.
Mixed. Oz. 40 cts.; pkt.5 cts.

HEDYSARUM.**French Honeysuckle.**

Handsome flowering plants, producing racemes of attractive pea-formed flowers. It bears some resemblance to the Scarlet Clover, but is a much bolder and handsomer flower. H. B.

Coronarum. Red. Pkt.5 cts.

HELIOTROPE.

Heliotropes can be grown as readily from seed as Pansies or Verbenas. Sow in open ground in May, and the plants will bloom in August. H. H. P.

Finest Mixed. Many varieties and colors. Pkt.5 cts.

HOLLYHOCK.

The Hollyhock, in its present state of perfection, is very unlike its parent of olden time; it now ranks with the Dahlia, Aster, etc. The seed we offer of this handsome flower has been saved from the best collections of Europe. H. P.

Wernich's Superior Double Prize Hollyhocks.

The following, per packet 10 cts. each:

Blush, Maroon,
Canary Yellow, Pink,
Crimson, Purple,
Deep Rose, Salmon,
Lavender, White,
Light Apricot, White Violet Centre.

Per pkt., 10 cts.; three pkts., 25 cts.; six pkts., 40 cts.; all twelve pkts., one of each, 75 cts.

Extra Choice Double Mixed. From named varieties. Pkt.5 cts.

Everblooming Allegheny Hollyhocks.

This new variety blooms the first year from seed, and the flowers are most decidedly different than those of the old type. They are much larger, 4 to 5 inches in diameter, double and semi-double, fringed and curled. The colors are shell pink, rose and ruby red, a shade or two deeper at the center, and exquisitely tinted toward the edge. Mixed. Pkt.10 cts.

HUMULUS JAPONICUS.**Japanese Hops.**

This splendid climber in foliage resembles the old-time Hop, but the foliage is more dense and exceedingly luxuriant, somewhat rough and hairy. H. A. 15 to 20 feet.

Japonicus. Insect proof, withstands heat and drought and remains fresh until late in the fall. Pkt.10 cts.

Variegatus. Like the preceding, except that the foliage is beautifully blotched. Pkt.10 cts.



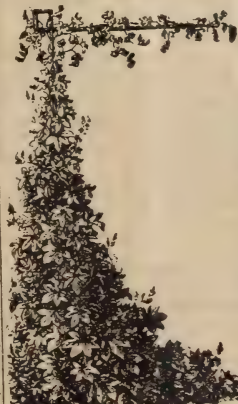
Sunflower Stella.



Golden Rod.



Heliotrope.



Humulus Japonicus.

**HELIANTHUS, OR
SUNFLOWER.**

Remarkable for the stately growth, size and brilliancy of their flowers, making a very good effect among shrubbery and for screens. The single sorts are now considered indispensable for cutting. Sown on a sunny spot in April or May, flowers may be cut daily from the end of June until cut down by frost. H. A.

Nanus Folius Variegatus. The foliage variegated, green and white; dwarf. Pkt.5 cts.

Stella. (New. Cut and Come Again Sunflower.) 3 to 4 feet. Flowers on long stems. Valuable for cutting. Pkt.5 cts.

Macrophyllus Giganteus. A branching pyramidal-shaped plant; yellow flowers about 18 inches in diameter. 6 feet. Pkt.5 cts.

White Beauty. A Sunflower with snow-white seeds. A novelty in a 1,000. Pkt., 5 cts.; oz., 10 cts.; ¼ lb., 15 cts.; 1 lb.40 cts.

Dwarf Double. (Miniature.) Flowers single bright orange, elegant in form, suitable for bouquets as they measure only about 2 inches across. 3 feet. Pkt. ...3 cts.

ICE PLANTS.**Mesembrianthemum Crystallinum.**

A singular looking plant with thick, fleshy leaves, which have the appearance of being covered with crystals of ice. Start early in pots, and transplant into light, sandy soil in a warm situation. T. A. Pkt. 5 cts.

KENILWORTH IVY.**Linaria Cymbalaria.**

One of the most beautiful of basket or vase plants is Kenilworth Ivy, and it can be grown from seeds by anyone as readily as a Morning Glory. Seeding plants are of rapid growth, come into bloom in a few weeks, and make long drooping sprays of exquisite foliage thickly set with lovely little flowers. The plant thrives in a cool, dense shade, and likes plenty of moisture about the roots. The plants are hardy perennials with protection at the north, and are excellent for carpeting a bed of Roses or Gladiolus. For a north window, or a window which the sun does not reach this lovely basket plant is just suited. Pkt.5 cts.

LARKSPUR.

A beautiful genus, the prevailing color of the flowers, blue. For planting in permanent places and massing in clumps in mixed borders they are particularly desirable.

Double Tall Annuals. Mixed. Pkt. 5 cts.

Double Dwarf Annuals. Mixed. Pkt.5 cts.

Perennial Varieties. Finest Mixed. Pkt.10 cts.

LOBELIA.

Dwarf-growing plant from 4 to 6 inches high, with blue, white, crimson and rose flowers, adapted for ribbon borders, beds, baskets and pots. Should be started in heat and afterwards transplanted. H. H. P.

Erinus Varieties. Mixed. Pkt. 5 cts.

LOPHOSPERMUM.

Rapid-growing ornamental climbing plants, with leaves and handsome flowers. T. P.

Scandens. Pure violet. Pkt.5 cts.

Coccineum. Scarlet. Pkt.5 cts.

LUPINUS.

Very desirable plants bearing long spikes of brilliant flowers.

Dwarf Annuals. Mixed. Pkt.5 cts.

Tall Annuals. Mixed. Pkt.3 cts.

MARIGOLD.

A well-known magnificent plant with handsome flowers of rich and beautiful colors, and neat, compact green foliage, producing a splendid effect in almost any situation. H. H. A.

Legion of Honor. The prettiest of the Marigolds. The plants will bloom from the middle of summer until late in fall. Flowers rich golden yellow marked with velvety brown, 15 inches. Pkt. 5cts.

Double French, Mixed. Yellow, brown and crimson, beautifully striped. 1 foot. Pkt.3 cts.

Double African, Mixed. Old favorite garden annuals. Effective for groups and masses. Yellow and orange shades, 2 feet. Pkt.3 cts.

MATRICARIA.

(Double White Feverfew.)

Alba Plenissima. Bushy annual garden plant, bearing quantities of white double button-like flowers, useful for cutting, 2 feet. Pkt.5 cts.

MAURANDIA.

Beautiful, rapid climber, blooming profusely until late in the autumn, also fine for the conservatory or greenhouse. 10 feet high. T. P. C.

Mixed, Choicest Kinds. Pkt. 5c.

MIGNONETTE.

(See Reseda. Page 59)

MIMOSA.

Pudica. (Sensitive Plant.) A very interesting and curious plant, its leaves closing if touched or shaken. H. H. A. 9 inches. Pkt.5 cts.

MIMULUS.

Monkey Flower.

Showy, profuse, flowering plants, fine for greenhouse or moist, shady situations. Seed is very small and should be covered very slightly.

Moschatus. (Musk Plant.) Fine for hanging baskets, etc.; the thin, delicate leaves emit a pleasant musk odor. T. A. Pkt.5 cts.

MOMORDICA.

Curious climbers, with ornamental foliage and odd-shaped fruit, which, when ripe, open, showing a brilliant red interior; make a nice display on trellises and rock work. H. H. A. 10 feet.

Momordica Balsamina (Balsam Apple). Pkt. 5c.

Momordica Charatina (Balsam Pear). Pkt. 5c.

MOON FLOWERS.

(Ipomea.)

Climbers of rapid growth, with beautiful and varied flowers; for covering old walls, trellises, arbors, or stumps of trees, they are invaluable.

Brazilian Morning Glory. (Setosa.) Flowers 3 inches or more across, of a beautiful rose color, borne in large clusters very freely from July to frost. Leaves 8 to 12 inches across. T. P. 10 to 20 feet. Pkt.10 cts.

Evening Glory. (Bona Nox.) Violet, large fragrant flowers, expanding in the evening. T. A. 15 feet. Pkt.5 cts.

Moon Flower. (Grandiflora Alba.) It bears in greatest profusion its lovely immense white flowers, five to six inches in diameter, with a five-pointed star in the center; the flowers open at dusk, or earlier on cloudy days, at which time they are deliciously fragrant. T. A. 15 feet. Pkt.10 cts.

Northern Light. Flowers 2 inches in diameter, of pink lavender color, blooming earlier than any of the Ipomeas that open in the evening. The foliage is large and handsome and remarkable for its drought-resisting qualities, remaining green and fresh when others are yellow and withered from lack of moisture. It is a rampant grower from time of germination, exceeding any Ipomea grown. T. A. 15 feet. Pkt.10 cts.

The above four named Moon Flowers.25 cts.

MORNING GLORIES.

Convulvulus Major.

The old-fashioned Morning Glory is easy to grow and will reach a height of 20 feet in one season. Should be sown early and where intended to bloom. H. H. A.

Fine Mixed, Per oz., 10 cts.; pkt.3 cts.

Convulvulus Minor.

These grow about one foot high only. They are useful plants in the garden and for hanging baskets. H. H. A.

Fine Mixed, Per oz., 10 cts.; pkt.3 cts.

**WERNICH'S****Imperial Japanese Morning Glory.**

Gigantic Flowers 4 to 5 inches across.

Luxuriant Grower, Climbs 20 to 30 feet.

Manificent Colors.

Imperial Japanese Morning Glories.

Soak the seeds in lukewarm water for 24 hours before sowing, to aid in germination, or draw a sharp knife across one edge of the seed.

No one who has not looked upon the flowers of the Japanese Morning Glories, has any conception of the enormous flowers—from four to six inches across—and their beautiful colors, running from snowy white through all possible shades of blue, and red, from palest pink to darkest reds and purple. They are streaked, mottled, striped, and blotched in wonderful fashion. The leaves are large, some ivy-shaped, some heart-shaped, some are dark green, others are mottled.

Sow in May. They do not start as quickly as the common Morning Glory, but will reach a height of 20 feet during the summer. Per oz., 15 cts.; pkt.5 cts.

NICOTIANA.

Affinis. (Sweet-scented tobacco plant.) Produces freely deliciously scented large, white, tubulous flowers. If taken up in fall and potted it will bloom in the house during the winter. H. H. A. 2 feet. Pkt. 5c.

NIGELLA.

(Love in a Mist or Devil in the Bush.)

A compact, free-flowering plant, with finely cut foliage, curious looking flowers and seed pods; of easy culture in any garden soil. H. A. 1 foot.

Damascena, Mixed. Pkt.5c

OXALIS.

Small free-flowering plants, with brightly colored clover-like leaves, thickly starred with small bright flowers from June until frost. Sown thinly in drills it makes a fine edging or border for flower-beds. The seed being small, it should be lightly covered and may be sown quite early when trees are starting out in leaf. T. P. Mixed. Pkt.5c

PAEONY.

Beautiful hardy plants. Large, handsome flowers. H. P.

Sinensis, Mixed. Pkt.10c

PASSION FLOWER.

A well-known climber of rapid growth, with singular large flowers, well adapted to house culture in winter or in sunny positions in summer. H. H. A. 10 feet. Mixed. Pkt.10c

PERILLA NANKINENSIS.

Ornamental foliage plants of compact habit; similar to Coleus, with leaves of a black mulberry color; showy garden annual. H. H. A. 1½ feet. Pkt.5c



NASTURTIIUM.

TALL OR CLIMBING VARIETIES.

Nothing can equal the tall varieties as cover for fences, verandas, or unsightly outhouses. They flower profusely, giving an immense blaze of color, which greatly tends to heighten the appearance of the garden. H. A.

Price of any of the following named varieties: pkt. 3 cts., oz. 10 cts., ¼ lb. 35 cts.

Atropurpureum. Flowers of a rich brownish red or velvety crimson.

Crimson. Deep velvety red, brown and brownish crimson.

Edward Otto. Flowers of a most distinct cinnamon or chocolate-brown, with rich yellow calyx and spur.

Hemisphaericum. Rich lemon yellow, with throat blotches of deep crimson.

King Theodore. Flowers almost black, foliage bluish-green.

Luteum. Large flowers of a clear, deep orange yellow.

Orange. Deep orange stained with cinnamon brown in throat and brightly marked with crimson blotches.

Pearl. Flowers of a soft primrose or pale lemon yellow, self-colored and of delicate satiny texture. This is the nearest approach to creamy white.

Regelianum. Flowers of good size and very rich coloring. Deep brownish red, shaded with purplish violet, which is most subdued light.

Scheuerianum. Pale yellow or light straw colored, brightly marked with carmine blotches and shadings.

Vesuvius. Brilliant fiery rose, very effective, new and beautiful.

Von Moltke. Beautiful rose.

Tall Nasturtium Mixed. All of the above mixed. Pkt., 3c; oz., 10c; ¼ lb., 20c; 1 lb., 70c. Postpaid.

Special Offer of Tall Nasturtiums.

"Tall Collection." No. 1. All 12 varieties 1 pkt. each, 25c, net without discount. "Tall Collection." No. 2. All 12 varieties 1 oz. each, 75c, net without discount.

DWARF OR BEDDING VARIETIES.

The improved varieties of the Dwarf Nasturtium are among the most popular and beautiful of our garden plants. Their neat, compact growth, rich colored flowers and free-blooming and long-lasting qualities, together with their adaptability to almost any soil or situation, have made them general garden favorites.

Price of any of the following named varieties, pkt., 3 cts.; oz., 10 cts.; ¼ lb., 35 cts., (except where noted).

Aurora. Flowers of a rich, bright chrome-yellow, distinctly veined with purplish carmine.

Beauty. Glowing orange with suffused flaming scarlet markings.

Chameleon. Possesses the peculiarity of producing variously colored flowers on the same plant. The neat, compact bushes form exceedingly fine edgings and are unrivaled for general garden decoration. Oz., 15 cts.; ¼ lb., 50 cts.

Coccineum. A beautiful dark velvety scarlet. Golden foliage. Oz., 15 cts.; ¼ lb., 45 cts.

Empress of India. Dwarf, compact growth, with large purplish-green leaves. Flowers of a darg, rich salmon-scarlet.

King Theodore. Dark foliage and flowers of a rich velvety crimson.

Lady Bird. Bright orange-yellow flowers, with showy brown blotch. Oz., 15 cts.; ¼ lb., 50 cts.

Pearl. Clear lemon-yellow, fading to a faint primrose or straw tint.

Prince Henry. Flowers of pale straw-yellow heavily suffused with rose; one of the most distinct and charming.

Roseum. Small Flowers of deep bright rose tinted with salmon. Oz., 15 cts.; ¼ lb., 50 cts.

Ruby King. Flowers of a bright ruby-red with a salmon tint.

Spotted. Flowers of a rich glowing yellow, spotted and flaked with velvety brown or carmine. Oz., 15 cts.; ¼ lb., 45 cts.

Dwarf Nasturtiums Mixed. All of the abovemixed. Pkt., 3 cts.; oz., 10 cts.; ¼ lb., 25 cts.; 1 lb., 85 cts.

Special Offer of Dwarf Nasturtiums.

"Dwarf Collection." No. 1. All 12 varieties, 1 pkt. each, 25 cts., net without discount. "Dwarf Collection." No. 2. All 12 varieties, 1oz. each, 90 cts., net without discount.



WERNICH'S GIANT AND PRIZE PANSIES.

There is nothing in our extensive list of Flower Seeds which is more important than Pansy seed, and we spare no trouble or expense to have the very best strains that are to be procured, and we know there is no better Pansy Seed to be had either in this country or in Europe than that we carry in stock and supply to our customers.

GIANT PANSIES.

The blossoms are simply enormous, perfect in form and run through all the varieties of colors.

Giant Adonis. A magnificent light blue with a white center. Pkt.10c

Giant Azure Blue. Velvety dark blue, beautiful. Pkt.10c

Giant Goldelse. (Canary-bird.) Spotless yellow. Pkt.10c

Giant King of the Blacks. Lustrous jet-black. Pkt.10c

Giant Fire King. Crimson-purple and golden-yellow. Pkt.10c

Giant Peacock. Garnet-cream, garnet and blue. Pkt.10c

Giant Snowqueen. (Snowflake.) Spotless, snow white. Pkt.10c

Giant Striped. White, blue, violet and chocolate. Pkt.10c

Giant Trimardeau, Mixed. A splendid mixture of the above named and many others. First quality seed saved from the finest strains.

We claim to have the best Giant Pansy mixture, both in size and colorings. $\frac{1}{8}$ oz., 40c; pkt.10c

Wernich's Parisian, Mixed. Thousands of these Pansies are sold daily in the Paris markets. The flowers of this strain are as large as the "Giant" and far superior in colors and markings. $\frac{1}{8}$ oz., 50c; pkt.15c

Special Offer.

Any 4 Packets,
Giant for 30c

All 8 Packets,
(one of each)
Giant for 50c

Net, no discount.

PRIZE PANSIES.

The best Pansy for bedding. Almost an endless variety of all shades and colors.

Prize Yellow. Pure yellow, without eye. Pkt., 5c

Prize Emperor William. Ultramarine blue with purple-violet eye. Pkt.5c

Prize Dr. Faust. Densest black Pansies known. Pkt.5c

Prize Snowflake. Pure white. Pkt.5c

Prize Victoria. (New.) Splendid wine red. Pkt. 5c

Prize Gold Margined. Beautiful, with gold edge. Pkt.5c

Prize Silver Margined. Beautiful, with silver edge. Pkt.5c

Prize Prince Bismarck. Golden bronze, marbled and light brown. Pkt.5c

Prize Bedding, Mixed. All of the above and many others in mixture. Best mixture of Bedding Pansies, saved from the finest strains by one of the largest Pansy Growers in Germany. $\frac{1}{8}$ oz., 25c; pkt.5c

Fine Mixed. Of all shades and colors and of sturdy growth. The seed is good, but is not to be compared with the better mixture. $\frac{1}{8}$ oz., 15c; pkt.3c

Special Offer.

Any 4 Packets,
Prize for 15c

All 8 Packets,
(one of each)
Prize for 25c

Net, no discount.

The Largest and Finest

WERNICH'S "ELITE" MIXTURE.

Nothing to Equal Them

While the "Giant" Pansies are great favorites on account of size, Wernich's "Elite" Pansies excel them in size as well as colorings. This grand strain of Pansies is saved for us by one of the largest Pansy Growers in Europe, a grower who in competition with noted Pansy Specialists at Fairs, Flower Shows and Exhibitions, has been awarded the highest prizes. "Elite" Pansies are unexcelled by any in size of flower or for richness of color. Flowers are large and colors sharply defined markings. $\frac{1}{8}$ oz., \$1.00; pkt., 25c.

PETUNIA.

Invaluable for planting out in beds or mixed borders. H. H. P.

New Star. Last year's novelty. A free grower and branches freely. Plant attains a height of 18 inches by 24 inches in diameter. The flower is about 2 $\frac{1}{4}$ inches in diameter. Ground color is crimson maroon with a rich velvety texture. Showing through the ground color are violet veining. From the center the points of a five-rayed star begin broadening half way up and narrowing to a point at the margin of the flower. Color of star a light bluish pink. Pkt.15c

Fine Mixed. Splendid varieties. Pkt.5c

Hybrida Grandiflora. Finest striped and blotched varieties. Large flowering. Pkt.10c

Fringed Hybrida, Mixed. Large flowers of various shades, colors and markings, beautifully fringed. Pkt.15c

Wernich's Double Giant Petunia. This splendid strain flowers as large as Hollyhocks; is as double as double can be, with finely fringed edges and crinkled petals. The combination of colors is intensifying, varying in all shades and markings. Pkt.25c

PHLOX DRUMMONDII GRANDIFLORA.

For beds and massing, nothing can surpass these beautiful annuals. They produce immense trusses of large brilliant flowers of numberless hues throughout the summer. 1 $\frac{1}{2}$ feet high. Our large-flowering Phlox is an improved strain with extra large perfectly round flowers, with petals overlapping each other.

Alba. Pure white. Pkt.5c

Brilliant. (New.) Rose with dark red eye. Pkt. 5c

Atropurpurea Alba Oculata. Purple with white eye. Pkt.5c

Black-Brown. Darkest color in Phloxes. Pkt. 5c

Coccinea. Brilliant Scarlet, rich and bright. Pkt. 5c

Coccinea Striata. Fiery-red, white striped. Pkt. 5c

Vermilion Scarlet. (New.) Fine color. Pkt. 5c

Any 4 of above, 15c; all 7 Phloxes, 1 pkt. each, 25c

Large Flowering, Mixed. Oz., 50c; pkt.5c

Phlox Cuspidata. Star of Quedlinburg. Flowers are of regular star-like form. Plant of compact habit, about 12 inches high, bearing large umbels of flowers. Colors varied and beautiful, including white rose, salmon, scarlet, etc. Mixed. Pkt.5c



Mignonette, Goliath.



Double Poppies, Mixed.



Primula, Single Fringed.



Salvia Splendens.

POPPIES.

Very attractive in large beds, clumps and mixed borders. The seed should be sown where it is to remain.

Single Annuals.

Danebrog. Scarlet with a white cross in the center, resembling a Danish Flag. Pkt.....5 cts.

Peacock. Large brilliant scarlet and crimson flowers, with a black zone near the center, making a strong and beautiful contrast. Pkt.....5 cts.

Shirley. Many of the flowers are veined, streaked and flaked from the center towards the edges, while others are red, edged with white. Mixed colors. Pkt.....5 cts.

Tulip Poppy. A magnificent strain of Poppies, flowers of the most intense scarlet. Pkt.....10 cts.

Single Mixed. Oz., 30c; pkt., 5c.

Double Annuals.

Paeony Flowered, Mixed. Immense double, smooth-edged, broad petaled flowers, resembling Paeonies. Height about 2 feet. Pkt.....5 cts.

Carnation-flowered, Mixed. Magnificent garden annuals, 2 to 2½ feet high; large globular flowers often a foot in circumference, of the greatest variety of colors. Pkt....5 cts.

Hardy Perennials.

Iceland Mixed. Although hardy perennials, these Poppies bloom the first season from spring-sown seed. The flowers are produced in never-ceasing succession from the beginning of June to October. Pkt.....10 cts.

New Orientale Hybrids. Containing charming new colors, pink blotched purple, blood-red blotched black, glowing scarlet, reddish orange, salmon, etc. Pkt.....10 cts.

PORTULACA.

Popular hardy annuals, producing flowers of almost every hue in profusion, succeed best in sunny places, and will hardly ever suffer for the want of moisture.

Single Mixed. Pkt..... 5c

Double Mixed. Pkt..... 10c

PRIMULA.

Chinese Primroses are lovely and useful little plants for pot culture, that bloom most freely during winter and spring. T. P.

Single Fringed. Mixed, Pkt. 25 cts.

Double Fringed. Mixed, Pkt. 50 cts.

PYRETHRUM.

Old favorite herbaceous plants, very much in use for borders. The Golden Feather is a valuable yellow leaved variety much used for carpet beds.

Partheniolum Aureum (Golden Feather). Bright golden foliage. Pkt.....10 cts.

Roseum (Persian insect powder plant). Rose colored. Pkt....10 cts.



Pyrethrum Parthenium.



Salpiglossis.



Scabiosa.

RESEDA-MIGNONETTE.

The hardiest annual in cultivation and a universal favorite for its sweet and delicate fragrance. The varieties named below are valuable improvements. H. A.

Reseda Odorata. The common Sweet Mignonette. Oz., 15 cts. Pkt., 3 cts.

Machet. The flower spikes are very broad and long, and the red flowers exceedingly fragrant. The best variety for pot culture and bedding. Oz., 75 cts. Pkt.....10 cts.

Giant Pyramid. A grand and distinct sort. Large flowered, pyramidal in shape. Oz., 25 cts.; Pkt. 5 cts.

Golden Queen Golden yellow flowers; dense dwarf growth. Oz., 40 cts.; Pkt.....5 cts.

Giant Red, Goliath. This wonderful Mignonette grows 12 to 16 inches in height, in pyramidal form; its enormous Flower Spikes are of the largest size, the individual blossoms of an intense red color and are very sweet-scented. One of the best for cut flowers and pots. ¼ oz. 25 cts.; Pkt.10 cts.

RICINUS OR CASTOR

OIL BEAN.

They are splendid for subtropical effects, either planted singly on the lawn or in the center of a Canna or Caladium bed, 6 to 15 ft. H. H. A.

Borboriensis Arboreus. Beautiful green leaves of immense size; 12 to 15 ft. Oz. 15 cts.; Pkt.....3 cts.

Cambogiensis. Leaves large and palm-shaped and of a bronzed color, with red veins. Stems of leaves are of a brown, while the main stem of the plant is black. Oz. 40 cts.; Pkt.5 cts.

Zanzibarensis. An entirely new and distinct class of Castor Oil Beans from Africa, having short, stocky stems and enormous leaves, often 2 to 2½ feet across. Foliage of different colors, dark predominating. Mixed. Oz. 50 cts.; Pkt.....5 cts.

Gibsoni. Dark purplish red foliage and stems; highly ornamental; 6 feet. Oz. 20 cts.; Pkt.....5 cts.

Collection of the above 4 packages, 15 cts.

Castor Beans, Mixed. Above and many others in mixture. Oz. 10 cts.; Pkt.3 cts.

ROSES.

Polyantha Multiflora. (Little Midgets). Pretty little dwarf Roses, which commence blooming in about six weeks after the seed is sown. The flowers are semi-double, of various tints, and produced in large clusters freely until the frost comes. Although blooming freely the first season, they do not attain their best until the second year, when they are a perfect mass of bloom. H. P. Pkt....10 cts.

SPECIAL OFFER.

The above 7 choice Flowers as shown here for 60 cts.

WERNICH'S Sweet Peas.

30 GRAND NAMED SORTS.

A Few Rules for the Successful Cultivation of Sweet Peas.

The plants should not be raised for two successive seasons on the same ground. Neither should they be planted on the same ground after culinary peas.

Manuring with stable manure in the row immediately before sowing the seed is not desirable. Ground intended for sweet peas, if not left in good condition after taking the last crop, will be better for manuring the previous Fall rather than at the Spring Seeding.

The use of artificial fertilizers, bone meal, nitrate of soda, etc., can be made in Spring at the time of planting or soon after.

Thin sowing, by which is meant planting the seeds from four to six inches apart, is conducive to vigor and strength of the plants which come later into bloom, but continue much longer than the plants from thick seeding.

Frequent stirring of the soil with hoe or cultivator in dry weather, thus producing a dust mulch, is preferable to artificial watering, unless irrigating facilities afford opportunities for a regular and abundant supply of water.

Do not allow any flowers to go to seed else the plants will stop blooming.

Shades of White.

Blanche Burpee. Pure white, extra large size, good substance.

Emily Henderson. Pure white flowers, extra large on long, stiff stems.

Shades of Heliotrope.

Emily Eckford. Reddish mauve, fading to light blue, large.

Dorothy Tennant. Deep rosy heliotrope, becoming darker with age.

Shades of Yellow.

Coquette. Wings primrose yellow, standard shaded pale lavender on a primrose ground.

Mrs. Eckford. Primrose yellow, large flower.

Shades of Pink.

Blushing Beauty. Very fine, delicate shade of pink.

Lovely. Warm, rosy pink, large and fine.

Mrs. Gladstone. Delicate soft rosy pink, bluish wings.

Shades of Rose.

Adonis. Rose and carmine, small flowers.

Novelty. Rich rosy red, a very bright color.

Shades of Scarlet.

Firefly. Intense glowing scarlet, fiery scarlet wings.

Invincible Scarlet. Bright scarlet, very fine.

Shades of Blue.

Captain of the Blues. Standards, purplish blue, wings deep blue.

Navy Blue. Dark blue, the best of blues. Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.00.

Prices pkg., 5c; oz., 10c; 1-4 lb., 20c; 1 lb., 60; postpaid.

MIXTURES OF SWEET PEAS.

Wernich's Bouquet Mixture. This is the finest mixture ever offered, containing not only all of the above named varieties, but also many others. This seed is not grown in mixture but is carefully mixed by us with consideration to produce tone and effect. Bouquet mixture has won unstinted praise of our customers. Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., \$1.00; postpaid.

Wernich's Fine Mixed. A good mixture containing nearly all of the above and many others. Pkt., 3c; oz., 7c; ¼ lb., 15c; 1 lb., 50c; postpaid.

SPECIAL OFFER.

No. 1. Any 3 pkts., 10c; any 10 pkts., 30c; all 30 pkts., 75c; postpaid.
No. 2. Any 3 ozs., 25c; any 10 ozs., 65c; all 30 ozs., \$1.75; postpaid.





Sweet William.

STOCKS.

These popular flowers are easily grown, and are so highly fragrant and of such great beauty that they deserve a place in every garden. H. H. A.

LARGE FLOWERING DOUBLE TEN WEEKS.

Pure White. Rose. Canary Yellow. Crimson. Carmine. Light Blue.

Any of the above Pkts., 10 cts.; any three pkts., 25 cts.; all six pkts., 45 cts.

Large Flowering, Ten Weeks, Mixed.

Pkt. 10 cts.

Dwarf German, Ten Weeks, Mixed.

Pkt. 5 cts.

Giant Perfection Stock, Mixed. This sort produces plants 2½ feet high with long flower spikes, handsome double flowers. Pkt. 10c

CUT AND COME AGAIN OR PERPETUAL-FLOWERING STOCK.

About 2 feet high; producing from spring to late in the fall beautifully shaped double flowers, which encircle numbers of side branches, and the oftener they are cut the better they seem to like it.

Mixed Colors. Pkt. 10c

SWEET WILLIAM.

(Dianthus Barbatus.)

One of the most admired of our garden flowers. Hardy plants, about 1 foot high, of extreme richness and variety of color, and also deliciously sweet-scented; for clumps or borders no plant can surpass this old favorite. H. B.

Single Mixed. Oz., 40c; pkt. 5c

Double Mixed. Oz., 80c; pkt. 10c

VERBENA.

Nothing excels the Verbena for showy flower beds. Sown early, they bloom the same year, their large self-colored striped and variegated flowers covering the entire plant. H. H. P. 1 foot.

Fine Mixed. Pkt. 5c

Hybrida. Choicest mixed. Saved from the most beautiful named flowers. Pkt. 10c

Hybrida Compacta. Last year's novelty. A valuable sort for bedding and edging purposes, on account of its short compact habit. Plants grow only 5 inches high and spread over 15 inches, covered with flowers. Pkt. 10c

New Fordhook Mammoth Verbena. They are of very large size, being frequently larger than a silver quarter, in fact, many are scarcely covered by a silver half-dollar. Pkt. 10c

VINCA, OR PERIWINKLE.

Handsome bushy plants, producing freely round single flowers, 1½ inches across, suitable for either pot culture or sunny beds; tender perennial, but flowers the first season. T. P. 1½ feet.

Rosea Alba. White, with rose eye. Pkt. 5c

Rosea. Bright rose. Pkt. 5c

Mixed. Pkt. 5c

ZINNIAS.

One of the most brilliant annuals; a general favorite, its splendid double flowers rivaling in beauty, size and form, moderate sized Dahlias. H. A.

Large Flowering Dwarf Double, Mixed. Useful for beds or borders. Height, 1½ feet. Oz., 40c; pkt. 5c

New Giant Mixed. Flowers perfectly double, measuring 5 to 6 inches in diameter, colors brilliant. Height, 3 feet. ¼ oz., 30c; pkt. 10c

Haageana (Mexican Zinnia). Grows erect in bush form to a height of 12 inches. Flowers of a bright golden yellow 2 inches in diameter. ¼ oz., 20c; pkt. 5c

Tall Annuals Mixed. Oz., 30c; pkt. 3c

Dwarf Annuals Mixed. Oz., 40c; pkt. 5c



Verbena.

VIOLET.

(Viola Odorata.)

The Violet should not be wanting in any garden, on account of its fragrance and early appearance. A single flower will perfume a whole room. They are well adapted for border or rock work. Succeeds best in a shady, sheltered place, and can be easily increased by dividing the roots. H. P. 6 inches.

Blue Sweet Violet. Pkt. 10c

Single White. Very fragrant. Pkt. 10c

WALL FLOWER.

(Cheiranthus Cheiri.)

Well known deliciously fragrant garden plant, blooming early in the spring, with large conspicuous spikes of beautiful flowers; they should be protected in a cold frame in winter and planted out in May. H. H. P. Single Large Flowering Mixed.

All colors. Pkt. 5c

Finest Double Large Flowering Mixed. All colors. Pkt. 10c

WILD CUCUMBERS.

(Echinocystis Lobata.)

This is the quickest growing climber on our list. Grows wild, self-sown, in many parts of the West. It will grow 10 feet in one season. It is thickly dotted over with pretty, white fragrant flowers, followed by an abundance of ornamental and prickly seed pods. For trellis or pillar no annual vine is more chaste, and it will quickly cover an old tree, or an unsightly building. H. A. C. ½ oz., 15c; pkt. 5c

ZEA MAIZE.

(Striped Japanese Corn.)

An ornamental foliage plant of much beauty. It is a species of corn, the leaves being beautifully striped with white and green. H. H. A.

Zea Japonica. Striped foliage, 6 feet. Pkt. 5c

SALPIGLOSSIS.

(Large-flowering.)

Most beautiful garden annuals, about 18 inches high, bearing flowers 3 inches across, of many beautiful colors, all exquisitely veined and laced. H. H. A.

Large-flowering. Mixed Colors. Pkt. 5 cts

SALVIA.

(Flowering Sage.)

Handsome plants, excellent for beds or borders, with long spikes of flowers, which continue in bloom until late in the fall. Sow seeds in April. H. H. P.

Splendens (Scarlet Sage). Vivid scarlet; 3 feet. Pkt. 5 cts.

Patens. Flowers of a delightful blue. Pkt. 10 cts.

Coccinea Lactea. Pure white. Pkt. 10 cts.

SCABIOSA.

(Mourning Bride, or Sweet Scabious.)

Very desirable plants, producing very pretty flowers of many colors in great profusion. Good for cutting for vases, etc. H. A.

Dwarf Double. Flowers are very globular. Pkt. 5 cts.

Tall Mixed. Large and beautiful flowers, being double clear through to the center of the flower. Excellent for cutting. Pkt. 5 cts.

SILENE.

Pendula Compacta. (Catch-Fly).

Beautiful free-flowering plants, very attractive for rock work, etc. H. A. Mixed. All colors. Pkt. 5 cts.

SMILAX.

Charming tender perennial climber for greenhouse or window gardens. The foliage and stems are of a pleasing light green; very graceful. Excellent for decoration. T. P. 6 feet. Pkt. 10 cts.



Violet Blue.



Zinnias.

EVERLASTING FLOWERS.

The Everlasting or "Straw Flowers" are most valuable for winter decorations. Plants grow readily from seed sown in open ground when the trees are starting out in leaf. When well started they should be thinned to stand several inches apart in the row, and should be kept cultivated to produce the finest and largest number of flowers. Flowers should be cut while freshly opened, tied in small bunches and dried slowly in a cool shady place, with the flowers downward to keep the stems straight.

Acroclinium, Mixed. Of dwarf-branching growth with silvery foliage; small rounded, clover-like flowers of pure white and rose-pink colorings. H. H. A. Per oz., 25 cts.; pkt.....3 cts.

Ammobium. Erect-branching plants two feet in height, with curiously winged stems surmounted by branching heads of small, pure white flowers with bright yellow center. H. H. P. Per oz., 30 cts.; pkt.....3 cts.

Gomphrena (Globe Amaranth or Bachelor's Button), Mixed. Free-flowering plants two feet in height, producing small globe-shaped double flowers in bright colorings. H. H. A. Per oz., 25 cts.; pkt., 3 cts.

Helichrysum. These are the finest of all Everlastings. They resemble a freshly opened Aster in form and flower in many bright colors. H. A. Per oz., 40 cts.; pkt.....5 cts.

Rhodanthe, Mixed. Tender annuals fifteen inches in height with erect-branching stems and numerous flower-heads on slender stalks. These vary from pale rose to deep purple, containing many florets which retain their colors when dried. H. H. A. Per oz., 90 cts.; pkt.....5 cts.

Shortia. A native of California. Handsome, golden yellow flowers born in profusion. H. A. Per oz., 90 cts.; pkt.....5 cts.

Xeranthemum. Double flowers in varied colorings. Showy as a summer-flowering annual as well as desirable for the dried flowers. H. A. Per oz., 50 cts.; pkt.....5 cts.

EVERLASTING COLLECTION.

Seven Packets, one of each for 20 cts.

ORNAMENTAL GRASSES.

Ornamental Grasses are not only of most graceful growth and flower during the summer and fall, but if sprays are cut off when freshly opened (before seed forms) and slowly dried in a cool place, they will lend a graceful airy effect to bouquets of dried everlasting flowers. The feathery sprays of many varieties are also desirable for blending with bouquets of fresh flowers during summer; while others are used in making fancy baskets, etc. These grasses are all hardy.

Agrostis Nebulosa. Small growth with slender leaves and finely branched feathery sprays; only ten inches in height. H. A. 1 foot. Per oz., 60 cts.; pkt., 5c.

Andropogon Argenteus. Dense flowers, very silky, with bright white hairs. H. P. 3 feet. Per oz., 60 cts.; pkt..5 cts.

Avena Sterilis (Animated Oat). A strong-growing grass, throwing up seed-spikes two and a half feet in height. These bear seed closely resembling the oat, but larger in size and having the peculiarity of hopping about if the dry seed is moistened and placed on a level hard surface. H. A. 3 feet. Per oz., 25 cts.; pkt.....5 cts.

Briza Maxima (Quaking Grass). Grows to twice the height of the preceding, with taller sprays and larger heads of seed. These are borne in a close thickened panicle resembling the rattle of a rattlesnake slightly in form. H. A. 1½ feet. Per oz., 20 cts.; pkt.....5 cts.

Coix Lacrymariae (Job's Tears). Thick fleshy stems eighteen inches in height, with lance-shaped green leaves bearing clusters of hard seeds about the size of garden peas, from which the plant takes its name, being of peculiar pointed form. H. A. 1½ feet. Per oz., 30 cts.; pkt.....5 cts.



Ornamental Grasses.

Elymus Hystrix. From the Crimea. Very odd. H. P. 4 feet. Per oz., 50 cts.; pkt., 5 cts.

Eragrostis Elegans (Love Grass). Very pretty, about a foot high. Fine for bouquets. H. A. Per oz., 25 cts.; pkt..5 cts.

Gynierium Argentum (Pampas Grass). This produces the finest dried sprays, but is not hardy in our location, plants having to be taken up and wintered in a frost-proof cellar. Farther south the plants will live out if protected during the winter months. It is of strong growth with numerous plumes of beautiful feathery appearance. T. P. 4 ft. Per oz., \$1.00; pkt., 5 cts.

Hordeum Jubatum (Squirrel-Tail Grass). A hardy annual grass of strong growth, having large heads with quite long beard, resembling barley to a great extent, it being a natural variety of that grain. H. A. 2 feet. Per oz., 30 cts.; pkt..5 cts.

Lagurus Ovatus (Hare's Tail Grass). An annual variety having soft, white, silky spikes of flowers with protruding awns. H. H. A. 2 feet. Per oz., 30 cts.; pkt.....5 cts.

Pennisetum Villosum. Has beautiful crimson plumes. H. H. A. 3 feet. Per oz., 40 cts.; pkt..5 cts.

Stipa Pennata (Feather Grass). Has very graceful plumes. H. P. Per oz., 50 cts.; pkt.....5 cts.

SPECIAL MIXTURES OF FLOWER SEEDS.

Much pleasure is derived from watching the growth of a mixed bed of flowers. The mixtures are made from choice fresh seeds and cannot fail to give satisfaction. The packages are liberal in size, and in no other way can so many seeds be obtained for so little money.

Flowers for Bouquets. This mixture contains seeds producing flowers suitable for cutting for vases and bouquets, nearly all having long stems, and will furnish a constant supply of cut flowers throughout the entire season. Packet.....10 cts.

Wild Flower Garden. Full of daily surprises and one who has never seen such a garden cannot form any idea of its possibilities. Nothing, in the way of flowers, delights children more than this "Wild Garden," chiefly because they can be allowed to pick their own bouquets without stint. Pkt.....10 cts.

Mixture of Climbers. A packet of seeds containing over twenty beautiful annual climbers, for covering outhouses, trellises, etc. Pkt.....10 cts.

Mixed Everlastings. A great variety of attractive Everlastings. Pkt.....10 cts.

Mixed Ornamental Grasses. Very pretty for making winter bouquets and in decorating. Should be cut while fresh and green and hung in a dry airy place in the shade to dry. Pkt.....10 cts.

Any 3 Packets for 25c.; all 5 Packets for 35c.

SUMMER FLOWERING BULBS AND ROOTS.

THE SUMMER FLOWERING BULBS AND ROOTS for spring planting are inexpensive, very easily grown, require scarcely any care.

Single Bulbs and dozen lots delivered free at prices quoted in lots of 100 by express at purchasers' expense.

GLADIOLI.

Plant in May and June in any good garden soil, 6 inches apart and 4 inches deep.

	Each.	Per doz.	Per 100.
Pink Shades	\$0 05	\$0 40	\$2 25
Striped and Variegated	05	40	2 50
Scarlet and Red Shades	05	35	1 80
Yellow Shades	05	40	2 50
White and Light Shades ..	05	60	3 25
All Colors Mixed		30	1 75

Special offer of the above 5 Shades, 1 Dozen each, all separate, by Mail, for \$2.00.

TUBEROSES.

Plant in the open ground during May.

Excelsior Pearl Bulbs.—First quality; each, 5c; per doz., 40c; per 100, \$2.50.

HYACINTHUS CANDICANS.

It can be used with excellent effect in the center of a bed of Scarlet Gladiolus, as it comes into bloom about the same time. Ea., 10c; 3 for 25c; per doz., 90c.

MADERIA VINE ROOTS.

The Madeira Vine is a popular and favorite tuberous-rooted climber of rapid growth, with dense and beautiful foliage, twining of a great height. Strong tubers; ea., 6c; 3 for 15c; per doz., 50c.

CINNAMON VINE ROOTS.

The vines often run 25 feet or more, and when trained over and about a door or window make an ornament much admired. One large root or tuber, 10c; 3 for 20c; 12 for 65c.



Gladioli.

HARDY LILIES.

Plant in a well-drained good garden soil, covering the bulbs to a depth of 4 inches. At the time of planting cover on all sides of the bulbs good clean sand, after which fill up with ordinary soil.

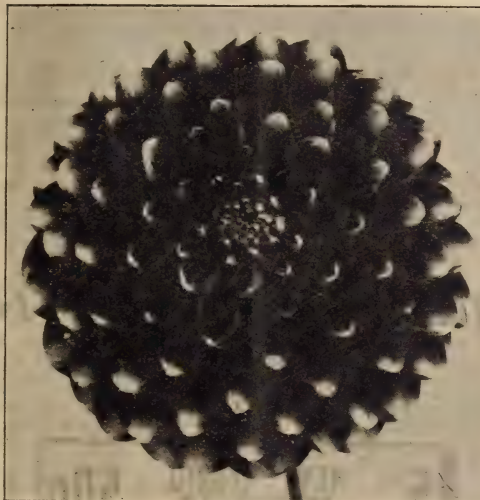
Auratum—Golden Banded Japan Lily.—Large bulbs; ea., 15c; per doz., \$1.75.

Speciosum Album.—White Japan Lily; ea., 25c; per doz., \$2.25.

Speciosum Roseum.—Rose spotted Japan Lily; ea., 20c; per doz., \$1.70.

CALADIUM ESCULENTUM.

"Elephant Ears." This splendid foliage plant adds greatly to the beauty of the lawn or garden by its immense tropical-like foliage. Plants attain a height of from 4 to 6 feet. Large bulbs by mail, 35c; per doz., \$3.85; second size bulbs, by mail, 20c; per doz., \$2.25.



Dahlia. "Frank Smith."

DAHLIAS.

They delight in a deep rich soil and thorough cultivation, and should be planted three and one-half to four feet apart.

Bon-Ton.—A fine ball-shaped flower of a deep garnet red; sometimes tipped and streaked with white.

Frank Smith.—Rich dark maroon. Generally tipped with pure white, shading into pink.

Glory De Lyon.—Pure white. The largest white dahlia in cultivation, almost round as a ball.

Grand Duke Alexis.—A magnificent dahlia of the largest size. Its petals are beautifully quilled, giving it a very unique appearance. Its color is pure white if slightly shaded, but overspread with delicate lavender when grown in bright sunlight.

Gen. Bidwell.—Pure lemon yellow. Of superb form. One of the best of all the yellows.

Lottie Eckford.—Pale pink ground, streaked and mottled with red.

Lydia Dieter.—A beautiful soft lavender shade. One of the most attractive colors in the collection.

Mrs. Gladstone.—Pale soft pink. A lovely form.

Mrs. Hartong.—Very large and of exquisite form. Color, light fawn, suffused with pink.

Orine Emerson.—A very handsome flower, borne on long stems. Color, rich, dazzling red, shaded light.

Pioneer.—The nearest approach to a black dahlia of any yet introduced.

Purple Gem.—Rich, royal purple, clear and constant. This is a show variety and a decided improvement over the old varieties. A first-class flower.

Strong roots, each 15c; \$1.50 per dozen, postpaid.



Dahlia. "Grand Duke Alexis."



MAILED, POSTPAID, DIRECT FROM GREENHOUSES.

IN CONNECTION with our mail trade in SEEDS and BULBS, we have made arrangements whereby we can also mail a very choice selection of ROSES and FLOWERING PLANTS. It is our desire to make our service to customers as complete and convenient as possible. When the seed order is made up, we would like you to include some bulbs and plants also.

All plants sent out are as large as can be safely packed and sent by mail. Notwithstanding the large number of plants which we have forwarded in mail bags, no complaint has ever reached us with regard to the size of the plants. The instances have been rare when packages went astray or arrived other than in good order.

Postage Paid At prices given we mail all plants (except such as from their size or otherwise are unmailable, and so stated) and prepay the postage, thus making delivery to your postoffice—often to your door.

Plants mailed at any time.

Many customers order both seeds and plants at the same time, early in the winter. Seeds are sent immediately, but, if requested, we will book the order for plants to be sent later in the season, at any time up to June. Please be careful to state on the order just what date you want us to mail the plants,—as otherwise we will consider you are ready for them immediately, and will forward soon after seeds weather permitting, in separate packages.

SHOULD THE WEATHER BE UNFAVORABLE FOR MAILING, WE RESERVE THE RIGHT TO HOLD THE ORDER UNTIL PLANTS CAN BE EXPECTED TO TRAVEL IN SAFETY FROM DANGER OF FREEZING.

How to Order We would consider it a favor to have orders for plants written either on the back of our order sheet or on a separate slip. When mixed up among seeds a delay is caused in the execution of your order.

Hybrid Perpetual Roses.

All at 10 cts. each; 6 for 50 cts.; dozen, \$1.00, Postpaid.

All the Roses included under this class are thoroughly hardy; that is, they will live through winter in almost any part of the United States. The Flowers are of large size, and of the most beautiful colors from pure white to the darkest shade of crimson. Their blooming season is in June and July. Some sorts do not bloom until the second year, but when thoroughly established they bloom very freely at the usual season. In the spring cut back all the old stems. New ones will be sent up, and it is on these the flowers are borne.

Alfred Colomb.—Crimson, large, fragrant flowers.

American Beauty.—Flowers very large and double; color, rich crimson; very fragrant.

Anna De Diesbach.—Bright carmine; sweet.

Baron De Bonstettin.—Blackish crimson with bright red shading.

Caprice.—A striped red rose; ground color, soft pink marked with rose.

Coquette De Blanches.—White, tinged with pink; free-flowering.

Coquette Des Alps.—White, tinged bluish; fine.

Fisher Holmes.—Rich, velvety crimson, large and fragrant.

Gen. Jacqueminot.—Bright crimson. A universal favorite.

Gen. Washington.—Red, shaded with crimson; flower flat.

John Hopper.—Bright rose; fine form. A highly prized variety.

John Keynes.—Reddish maroon; strong grower; flowers of fine shape and freely produced.

Any of the Above at 10 cts. Each; 6 for 50 cts.; Dozen, \$1.00, Postpaid.

5 NEW HYBRID PERPETUALS 50c

Clio.—The finest flesh colored hybrid perpetual. The flowers are simply perfection in form, with fine, broad petals, and are beautiful at all stages of development; color, delicate satin blush, with a shading of rosy pink at center. Free blooming and strong, healthy grower.

Margaret Dickson.—The flower is of magnificent form, very double and the color is a waxy white; petals are large shell shaped and prettily curled back; very beautiful.

Helen Keller.—The plant is a vigorous grower and produces brilliant rose colored flowers in great abundance from early spring until fall.

Mrs. R. G. Sherman Crawford.—Color is a deep, rich pink, outer petals tinted with pale flesh; flowers are large, full, very fragrant and unique.

Marchioness of Lorne.—Large, full, cup-shaped; buds long and handsome; rich shining rose color with vivid carmine; hardy, fragrant.

Each 12 cts., 3 for 30 cts., 12 for \$1.00.

THE COLLECTION.

All five, one of each for 50 cts. postpaid.

La Reine.—Clear light rose.

Madam Chas. Wood.—Bright crimson with deeper shading.

Mme. Gabriel Luizet.—Extra large, fine form, double. Color, a clear rose, shaded lavender and pearl.

Madam Plantier.—Pure white; a profuse bloomer. This is a splendid cemetery rose; unlike the other varieties it should never be pruned.

Magna Charta.—Dark pink; double and full; easy to grow.

Maurice Bernardin.—A vigorous grower; large, full, fine, vermilion flowers of fine form.

Mrs. Cleveland.—Delicate, waxy flesh pink; flowers very large and perfectly shaped.

Mrs. John Laing.—A truly constant bloomer with immense flowers, double. Color, a clear bright shining pink.

Paul Neyron.—Deep rose color; largest of all, perfect in form.

Prince Camille De Rohan.—Velvety crimson, shading to dark maroon; very handsome.

Ulrich Brunner.—Cherry red flowers, beautifully shaped buds.

Victor Verdier.—Rose color, crimson center; large and full.

Any of the Above at 10 cts. Each; 6 for 50 cts.; Dozen, \$1.00, Postpaid.

EVER-BLOOMING TEA AND HYBRID ROSES.

ALL AT TEN CENTS EACH, 6 for 50c.; dozen, \$1.00. Postpaid.

The Roses given under this class are mostly the result of crosses between the Teas and Hybrid Perpetuals. In this class will be found many varieties famous for their vigor, profuseness, brilliancy and exquisite fragrance of flowers. They combine the valuable characteristics of both the Teas and Hybrid Perpetuals, inasmuch as they bloom freely the first year like ordinary Ever-blooming Tea Roses, and from the Hybrids they inherit the large, finely formed flowers and pungent fragrance, together with vigor and hardiness. South of Philadelphia they are hardy; in the North they will be benefited if given slight protection.

Varities marked * are Hardy or nearly so, with protection of leaves or straw in winter.

***Agrippina.**—Rich crimson; good bedder.

***Bon Silene.**—Noted for the great size and beauty of its buds. Carmine-rose, shaded with salmon.

Bride.—Perfect globular, pointed buds of purest white.

Bridesmaid.—A valuable forcing variety; does well in the open ground; color a fine clear pink.

***Burbank.**—A hardy Tea Rose, free-flowering and of a cherry crimson color.

***Caroline Marniesse.**—A continuous bloomer, pure white, slightly tinged with pink.

Catharine Mermet.—Silvery pink, delicately shaded in center and at base amber and fawn.

***Champion of the World.**—A cross between Magna Charta and Hermosa. Perfectly hardy, Deep rosy pink.

Clothilde Soupert.—Fine for out-door, and by many considered the very finest pot rose; color, a pearly white, with center of tinted salmon peach.

***Etoile De Lyon.**—Deep yellow, double and very beautiful.

***Hermosa.**—Bright rose, medium or small; hardy. It is continually in bloom; not full; very popular.

Kaiserin Augusta Victoria.—Pure white with yellow center. Very free. The form of C. Mermet.

***Mme. Hoste.**—Yellow white, often canary yellow; base of petals often amber colored. Forcing variety.

Mme. Caroline Testout.—Flower large, double and globular; clear satiny rose; very fragrant.

Marion Dingee.—Deep Carmine. Very fine bedder.

Any of the Above at 10c each; 6 for 50c; Doz., \$1.00; Postpaid.

4 LA FRANCE ROSES FOR 35c



La France (Pink La France.)—The sweetest of all Roses, perfect, full, globular flowers; silvery rose, passing to pink; hardy and a constant bloomer. 15c each.

Duchess of Albany (Red La France.)—Like its famous parent, except in color, which is three or four shades darker; a wonderful deep rose-pink. Superb, fragrant flowers. A great favorite. 15c each.

Augustine Guinoisseau (White La France.)—Large, pearly-white, fragrant flowers. 15c each.

Madame Vlyset (Striped La France.)—This lovely caprice will please all with its odd and novel combination of pink and white stripes. Grows and flowers as freely as **La France**. 15c each.

For 35 cts. we will send, postpaid, one good, strong plant each of the **Red, White, Pink and Striped La France** Roses offered above.

Marie Guillot.—White, faintly tinged yellow. Large, full and of splendid form.

***Mrs. Degraw.**—Glossy pink, fragrant and continuous bloomer.

Meteor.—Velvety crimson. The brightest and best of Hybrid Teas, without a purple tinge.

Mosella. (Yellow Soupert) —Color, a beautiful light yellow, shaded to white at edge of petals; plant, dwarf, bushy and very free flowering in clusters.

Niphetos.—An elegant white rose, buds of which sometimes are 3 inches long.

Papa Gontier.—Very bright rose or red, large, not double; flower extra good; forcing variety.

***Paquerette.**—A pure white rose, about 1-inch in diameter, flowering in clusters of from 1 to 50 blooms.

Perle Des Jardins.—Canary yellow. Very large, well formed, stiff stems; very free. The standard forcing Tea, by which all others are compared.

Pink Soupert.—This is a beautiful bright pink and contrasts finely with the other varieties; blooms freely and produces double blossoms.

***Princess Bonnie.**—Crimson, petals streaked white inside.

***Safrano.**—Saffron and apricot; yellow, large semi-double, beautiful in bud; very free.

***Souv. De La Malmaison.**—Flesh shaded fawn; large, very full, flat. A fine rose.

Souv. De President Carnot.—Long bud of Niphetos shape; flesh color, shaded with rosy white at the edge of the petals.

Sunset.—A richly golden color, elegantly shaded with a dark ruddy crimson.

Any of the Above at 10c each; 6 for 50c; Doz., \$1.00; Postpaid.

BEAUTIFUL MOSS ROSES.

The Moss Rose is a strong vigorous grower, perfectly hardy, and therefore justly esteemed as very desirable for outdoor culture in open ground. Most varieties bloom but once in the season, and usually not the first year, but the flowers and buds are very large and handsome. Moss Roses like rich ground.

This is a favorite class with every one, on account of the beautiful bulbs, which, for bouquets and cut flowers, are invaluable. They require close pruning and high culture, but amply repay careful attention by the increased size and beauty of the flowers. They are all very hardy. The foliage is generally somewhat crimped, and has mostly seven leaflets.

Blanche Moreau.—This fine variety is highly recommended; flowers are produced in clusters, and are large, full and sweet; the color is pure white; both flowers and buds have an abundance of lovely deep green moss.

Crimson Globe.—A fine deep crimson, the flowers having the handsome globular shape characteristic of the H. P. varieties. Buds well mossed, very free flowering, vigorous and hardy.

Princess Adelaide.—One of the best; extra-large flowers; very double and fragrant; buds beautifully mossed; color bright rosy pink. Each 12c; 3 for 35c; 6 for 65c; 10 for \$1.15.

NEW CLIMBING MOSS ROSE.

“Cumberland Belle.”

The Only Climbing Variety in Existence.

This is the forerunner of a new race of Roses, a grand true Climbing Moss Rose. It is of American origin, having been found growing in a private garden in the historic Cumberland Valley—a sport. From that pretty Moss Rose Princess Adelaide, itself a strong vigorous grower which is wonderfully developed in the offspring, the original the first season having attained a height of over fifteen feet and had one hundred and eighteen buds and flowers on it at one time. Color a bright silvery rose; flowers double and very fragrant. Each 20c, 3 for 50c, 6 for 90c, 10 for \$1.40.



MEMORIAL ROSES.

Nothing more appropriate for use in Cemeteries. They are valuable for covering the ground, stumps of trees, pillars, posts, trellises, rocky slopes, gravelly embankments, etc. Absolutely hardy and survive the severest winters. The flowers are borne in the utmost profusion; a two or three-year-old plant producing thousands of most exquisite blossoms, which are delightfully fragrant and which hold their form a long time after cutting.

Universal Favorite. A beautiful rose color, deliciously fragrant; flowers double and 2 inches across. Each, 10 cts.; 3 for 25 cts.; 12 for 85 cts.

Pink Roamer. A luxurious grower, flowers 2 inches across, of a bright rich pink color. Each, 10 cts.; 3 for 25 cts.; 12 for 25 cts.

Evergreen Gem. Flowers double; color yellow when in bud; when open almost white; fragrant. Each, 15 cts.; 2 for 25 cts.; 12 for \$1.00.

Jersey Beauty. Very vigorous, yellow and very fragrant. Each, 15 cts.; 2 for 25 cts.; 12 for \$1.00.

Wichuriana. The most desirable for Cemetery planting, banks, rookeries, etc. Flowers white and of good size. Each, 10 cts.; 3 for 25 cts.; 12 for 85 cts.

CLIMBING ROSES.

The following varieties are highly valued for training over arbors, trellises and verandas; also as screens for unsightly objects, such as old buildings, fences, walls, etc. They grow 10 to 12 feet high, and are entirely hardy. They bloom the second year and but once in the season, but are then loaded with splendid roses, and are among the most beautiful of all flowers. The varieties described below are the best, and succeed well in all sections of the country.

5 Rambler Roses.

IN 5 DIFFERENT COLORS.

Carminé,

Crimson,

White,

Pink,

Yellow.

ALL 5 FOR 50c POSTPAID.

These roses should be in every garden. There is nothing in their class which will in any way compare with them.

The Rambler Roses will grow from 8 to 10 feet in one season. The size of their beautiful fragrant flower heads is remarkable. The foliage is thick and heavy. Flowers when cut last two weeks in water. May be grown as pillar rose, trained on an arch, or over the surface of the ground.

Crimson Rambler. Crimson.
White Rambler. Pearl white.
Pink Rambler. Pink.

Yellow Rambler. Golden yellow.

Prices: Each, 15 cts.; 3 for 40 cts.; 6 for 75 cts.; dozen for \$1.25, postpaid.



Other Climbing Roses.

IN 7 DIFFERENT COLORS.

Dark Red, Pale Blush, Velvety Crimson, White-Crimson, Bright Pink, Rosy Blush, Pure White.

ALL 7 FOR 45c POSTPAID.

Baltimore Bell. Pale blush, shading to rose.

Empress of China. This is a new and a valuable perpetual blooming climber. Flowers are small, delicate, and waxy. Bud is dark red, changing to a pink.

Seven Sisters. Color varies from white to crimson.

Prairie Queen. Bright pink.

Russell's Cottage. Velvety

crimson.

Tennessee Bell. Rosy blush.

Mary Washington. Pure

white.

All the above have double, sweet-scented flowers and will live through the winter outdoors.

Price: Each, 12 cts.; 3 for 30 cts.; 6 for 50 cts.; dozen for 90 cts., postpaid.

ROSE COLLECTIONS.

Roses for the Millions. You can have Loads of Roses.

The All Color Collection of Hybrid Perpetual Roses. Consists of three dark red, "Baron de Bonstettin," "John Keynes" and "Prince Camille de Rohan;" four red, "Alfred Colomb," "Gen'l Jacqueminot," "Gen'l Washington" and "Ulrich Brunner;" four pink, "Anne de Diesbach," "Madame Gabriel Luizet," "Magna Charta" and "Mrs. John Laing;" three white, "Coquette des Alps," "Coquette des Blanches" and "Madame Plantier,"—all the finest of their respective colors, fourteen in all, for only \$1.15. Postpaid.

The All Color Collection of Everblooming Roses. Consists of four yellow, "Etoile de Lyon," "Madame Hoste," "Mosella" and "Safrano;" four dark red, "Marion Dingee," "Meteor," "Papa Gontier" and "Princess Bonnie;" four pink, "Champion of the World," "Hermosa," "Mrs. De Graw" and "Souvenir de la Malmaison;" four white, "Caroline Marniesse," "Kaiserin Augusta Victoria," "Marie Guillot," and "Souvenir de President Carnot,"—the most beautiful colors, sixteen roses, for only \$1.25. Postpaid.

Postpaid. "Marie Guillot," and "Souvenir de President Carnot,"—the most beautiful colors, sixteen roses, for only \$1.25. Postpaid.

NO ORDERS FOR ROSES ACCEPTED AFTER JUNE 1st.



HOUSE AND BEDDING PLANTS.

No Orders Accepted After the 1st of June.

ASPARAGUS PLUMOSA.

(Climbing Lace Fern.)

A finer and more delicate plant than the Sprengerii, but hardy and easily grown; very satisfactory for window and house culture; an extremely graceful window climber, bright green feathery foliage, as fine as the finest silk or lace. The fronds retain their freshness for weeks when cut, and are greatly admired for floral decoration. An exceedingly beautiful plant for house and conservatory, and will thrive nicely in the temperature of an ordinary living-room. Entirely unequalled for the grace and beauty of its lovely, spray-like fronds.

Each, 15 cts.; 3 for 35 cts.; dozen, \$1.25, postpaid.

ASPARAGUS SPRENGERII.

(Emerald Feather Asparagus.)

This is undoubtedly one of the handsomest and most valuable evergreen trailing plants for the house and conservatory ever introduced. It is especially valuable for pots, vases, baskets, etc., covering all with its beautiful sprays of lovely green feathery foliage, which can be cut freely and are very useful for bouquets, wreaths, and all kinds of floral decoration. It makes a charming ornamental plant for the window or conservatory in winter, and is equally valuable for vases, baskets, porch-boxes in summer. It is a strong, vigorous plant, very easily grown, requires but little care and keeps on growing, fresh and green, year after year.

Each, 15 cts.; 3 for 35 cts.; dozen, \$1.25, postpaid.



Asparagus Plumosa.

COLEUS.

We offer a very fine variety of Coleus and they are delicate colors very hard to describe the various tints.

Golden Bedder. Deep golden yellow variety.

Fire Brand. Dark crimson, shaded garnet; a fine bedder.

Verschafeltii. This is one of the best for bedding, having a rich velvety, crimson foliage.

Golden Crown. A deep golden yellow, spotted with bright green and very handsome foliage.

Any of the above, each, 8 cts.; 3 for 20 cts.; dozen, 75 cts., postpaid.

HELIOTROPE.

One of the finest class of plants for cutting, as the delicious fragrance of all the varieties is very durable. For the same reason they make excellent house plants.

Dr. Livingston. Fine dark blue clusters.

White Lady. Large pure white flowers.

Each, 10 cts.; 3 for 25 cts.; dozen, 90 cts., postpaid.



Salvia Splendens.

PETUNIA.

Plants of the easiest culture, producing flowers in great profusion. Excellent for bedding and pot culture. They are among the most desirable plants we have. Our collection embraces a number of beautiful colors.

Double Crimson.

Double Pink.

Double Maroon.

Double White.

Double Variegated.

Each, 10 cts.; 3 for 25 cts.; dozen, 90 cts., postpaid.

SALVIA.

Also known as flowering Sage, growing about 2 to 2½ feet high and 2 feet through, producing through the entire season its brilliant spikes of flowers, which are borne well above the foliage.

Splendens. A brilliant scarlet.

Each, 10 cts.; 3 for 25 cts.; dozen, 90 cts., postpaid.

FUCHSIAS.

No class of plants are more graceful and elegant than the Fuchsias. The striking contrast of their colors,—white, carmine, rose, and purple,—renders them perfectly charming. Young plants will bloom profusely until October, but they must be planted in the coolest spot or in partial shade, as the sun will injure the flowers.

Single.

Little Beauty. A perfect gem; marvelously free-flowering. Flowers 1½ inches long; bright red tube and sepals; corolla rich purple.

Rosalind. Tube and sepals white; corolla magenta-pink.

Double.

Gigantea. The tube and sepals carmine; corolla a beautiful shade of light magenta.

Mrs. E. G. Hill. The most perfect double white Fuchsia yet introduced. Tube and sepals bright reddish crimson, contrasting with the large, pure white corolla to great advantage.

Phenomenal. Sepals bright carmine; corolla violet-purple; flowers large.

Storm King. Sepals bright crimson-scarlet; corolla shaded same, but well balanced with a profusion of white.

Any of the above, each, 10 cts.; 3 for 25 cts.; dozen, 90 cts., postpaid.

UMBRELLA PLANT.

(Cyperus Alternifolius.)

This is a plant of the easiest culture and a large specimen is as handsome as a palm for decoration. It makes a handsome pot plant, or can be used in baskets or vases, making a charming effect. It will grow luxuriantly in water, and is therefore indispensable for aquariums or fountains.

Each, 10 cts.; 3 for 25 cts.; dozen, 90 cts., postpaid.



CANNAS.

Cannas are very effective for bedding on the lawn, and equally good when grown as pot plants in the house or conservatory. They commence blooming soon after being planted out and flower profusely until stopped by frost. When well ripened by frost the bulbs should be carefully dug and dried and stored in a dry place in a temperature of 50 to 60 degrees. They multiply very rapidly, and can be kept for years by observing the directions given. They require a deep soil, enriched with well rotted manure, and should be watered freely.

- Admiral Avellan.** Scarlet, overlaid with salmon, 5 ft.
Allemania. Salmon and golden yellow, large flowers. 6 to 7 ft.
Austria. Pure canary yellow, very large open flowers. 6 to 7 ft.
Beaute Poitevine. A fine, free flowering crimson. 3 ft.
Burbank. Canary yellow with lower petals spotted crimson. 6 to 7 ft.
Captain Drujon. Fine deep red, dotted with golden yellow; a strong grower, 5 to 6 ft.
Chas. Henderson. Deep rich crimson, yellow at throat. 3 ft.
Duke of Marlborough. Velvety maroon, very dark. 3½ ft.
Florence Vaughan. Very large, bright yellow flowers, dotted with scarlet. 4 ft.
Madame Crozy. Crimson scarlet, bordered with golden yellow. 3½ ft.
Philadelphia. Large crimson scarlet flowers; one of the best. 3 ft.
Queen Charlotte. Orange scarlet, deeply edged with canary yellow. 3½ ft.
Rose Unique. Beautiful rosy pink; a vigorous grower. 5 ft.
Dormant Roots. Each, 15 cts.; 3 for 35 cts.; dozen, \$1.25, postpaid.



CARNATIONS.

Bon Ton. Bright, warm scarlet, large, deeply fringed, fragrant flower on a stem as stiff as a reed.

Daybreak. Delicate salmon pink; vigorous grower. Should be grown cool to give best results.

Eldorado. Light, clear yellow, petals edged with a narrow band of light pink.

Evelina. A very fine white. Its strong points are its earliness, great freedom and continuity of bloom.

Each, 10 cts.; 3 for 25 cts.; dozen, 85 cts.; postpaid.

Four Color Collection of Carnations, Pink, Scarlet, White, Yellow, our selection of varieties, for 25 cts., postpaid.



CARNATIONS.

Firefly. Deep scarlet, early, continuous bloomer; large, well formed flower, 2½ inches in diameter.

Flora Hill. The largest white variety to date, wonderfully free in bloom.

Gold Nugget. Clear, deep yellow, slightly marked with red.

Jubilee. Color intense scarlet, very large flower.

Triumph. A pure, rich pink; flowers often measure 3½ inches across.

Wm. Scott. Bright pink, one of the most productive large flowered pink Carnations.

Each, 10 cts.; 3 for 25 cts.; dozen, 85 cts.; postpaid.

Four Color Collection of Carnations, Pink, Scarlet, White, Yellow, our selection of varieties, for 25 cts., postpaid.



CHRYSANTHEMUMS.

Fisher's Torch. Bright, fiery red, the richest shade in Chrysanthemums; large, fine flower.

Ivory. Unexcelled for pot culture or cutting; pure white flower of exquisite form and finish.

J. A. Lager. Reflexed, of great depth. Petals long and twisted, open at the end, of beautiful pure yellow.

Maude Dean. An immense pink variety; finely incurved; petals broad, shell-shaped. One of the largest.

Major Bonnaillon. Soft, clear yellow; full in the center, eight inches in diameter and nearly as deep. In perfect form and finish; habit dark.

Mme. F. Bergmann. The finest of all the early whites; very large and full; and of the purest white, with creamy center; a strong, sturdy habit; fine foliage.

Mrs. E. G. Hill. One of the earliest of all large flowering sorts. Flowers very large; color delicate pearl pink.

Mrs. Henry Robinson. In the entire Chrysanthemum family there is no grander white variety.

Niveus. A grand, snow white variety; center irregularly incurving with outer petals reflexing nearly to the stem. Foliage large and abundant.

The Queen. One of the grandest of all whites, especially for exhibition.

Price: each 10 cts.; 3 for 25 cts.; 85 cts. per dozen, postpaid.

Four Color Collection of Chrysanthemums, Pink, Red, White and Yellow, our selection of varieties, for 25 cts., postpaid.

HARDY CLIMBING VINES

No Orders Accepted after April 10th.

Everyone who is the fortunate possessor of a few feet of ground should devote some space to the cultivation of the graceful and easy-growing climbers that thrive and flower everywhere.

AMPELOPSIS.

Veitchii. (Boston Ivy, Japanese Woodbine.) Unexcelled for covering walls, as it clings firmly to the smoothest surface, clothing it with a mass of overlapping leaves that are deep green during summer, changing to bright shades of crimson and yellow in autumn. By mail, each, 12 cts.; 3 for 35 cts.; dozen, \$1.00; postpaid. Large plants, each, 50 cts.; 3 for \$1.25; dozen, \$5.00; not prepaid.

CLEMATIS. THE QUEEN OF CLIMBING PLANTS.

There is no more ornamental class of plants than Clematis, and the rich show of bloom produced by the best varieties is far too magnificent to be fairly portrayed by mere words. They may be planted at any time. The ground should be dug deeply and well manured, in fact the soil cannot be too rich, and a little attention to this will amply repay you.

Madame Edouard Andre. Also of the Jackmanni type and is the nearest approach to a bright red that has yet appeared. The flowers are very large, usually six-petaled.

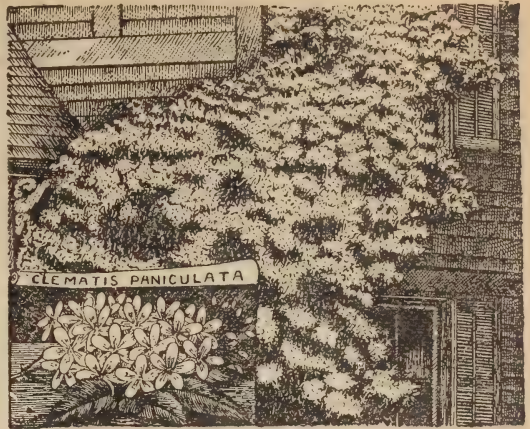
Madame Baron-Veillard. Of recent introduction and quite like its parent, the popular Jackmanni, in habit and make-up, except that its flowers are a lively, satiny lavender pink.

Jackmanni. The flowers are large, intense, rich, velvety violet-purple, and are produced in such masses as to form a cloud of bloom.

Henryi. A vigorous grower and a free bloomer, producing its large, pure white flowers constantly during summer and early autumn.

Paniculata. A rapid grower. Small pure white flowers, borne in great masses (see cut in upper corner) of panicles or clusters on long stems, so profuse as to fairly cover the plant with a sheet of fleecy white. Its fragrance resembles that of Magnolia.

All of the above (1 year old plants) each, 15 cts.; 3 for 35 cts.; dozen, \$1.25, postpaid.



HONEYSUCKLE.

Some of our friends have conceived the idea of planting Honeysuckles along the division fences, and it is wonderful what pretty hedges they make. Iron or wire fences are the best, but almost any kind is soon covered with a mantle of living green, making a very pretty and cheap border for lawns, drives, parks, walks, cemeteries.

Hall's Japan. A strong growing, almost evergreen, sort, with pure white flowers changing to yellow. Very fragrant and covered with flowers from July to November.

Monthly Fragrant. Red and yellow, very fragrant. Blooms all summer; leaves tinged with reddish color.

Scarlet Trumpet. Bright red trumpet-shaped flowers; bloom very freely the entire season.

Each, 12 cts.; 3 for 35 cts.; dozen, \$1.00, postpaid. Large, field-grown plants, each, 35 cts.; 3 for \$1.00; dozen, \$3.50; not prepaid.



Honeysuckle.

Other climbing vines will answer the same purpose, but the sweet-scented Honeysuckles are both fragrant and beautiful. They should be planted two feet apart.

BIGNONIA.

(Trumpet Creeper.)

For covering unsightly places, stumps, rockwork, or planting in crevices in ledges, the Bignonia will be found very useful. The flowers are large, attractive and showy, and borne profusely when the plant attains a fair size. Flowers, dark red, with orange throat.

Each, 12 cts.; 3 for 35 cts.; dozen, \$1.00, postpaid.

HARDY ENGLISH IVY.

A hardy, evergreen, climbing vine, with dark, glossy green leaves. Useful for covering walls of churches, etc., and for cemetery work in covering graves, especially if in the shade where grass will not succeed very well.

Each, 12 cts.; 3 for 35 cts.; dozen, \$1.00, postpaid.

PASSION FLOWER.

(Passiflora Incarnata.)

A strong growing, vigorous climber, making a fine covering for porches and verandas. Flowers 2 to 3 inches across, white, with light purple corona. In the North roots should be dug up and placed in the cellar until spring.

Each, 12 cts.; 3 for 35 cts.; dozen, \$1.00, postpaid.

WISTARIA.

A vigorous, hardy and rapid grower, particularly valuable for training over buildings, second floor verandas, and wherever tall growing climbers are wanted. The flowers are borne in long pendulous clusters, deliciously sweet and exceedingly handsome.

Chinese Purple. A lovely rich violet purple.

Each, 12 cts.; 3 for 35 cts.; dozen, \$1.00, postpaid.

Chinese White. A pure white flower.

Each, 15 cts.; 3 for 40 cts.; dozen, \$1.25, postpaid.



HARDY ORNAMENTAL SHRUBS.

No Orders Accepted after the 15th of April.

Mailing Size Plants Sent Postpaid Direct From Greenhouses.**DEUTZIA.**

Small flowered shrubs noted for their freedom of bloom and rapid growth. Through their blooming season, entire limbs are thickly studded with flowers.

Crenata. 4 to 6 feet. White, tinged with rose.

Gracilis. 2 to 3 feet. Pure white, very profuse. Each, 12 cts.; 3 for 35 cts.; dozen, \$1.00 Postpaid.

ELEAGNUS LONGIPES.

One of our most shapely and beautiful shrubs. In spring and summer its silvery leaves and bright yellow flowers are very attractive, while in winter its reddish brown bark is equally ornamental.

Each, 12 cts.; 3 for 35 cts.; dozen, \$1.00 Postpaid.

FORSYTHIA.

Fortunei. The first shrub to bloom in the spring, 6 to 8 feet, with graceful, drooping branch. The foliage is a deep glossy green; flowers, bright yellow.

Each, 12 cts.; 3 for 35 cts.; dozen, \$1.00 Postpaid.

HONEYSUCKLE.

Nothing prettier than this shrub when in bloom, and should be better known. Beautiful as it is when in bloom, yet if anything this is surpassed by the beauty of the berries which follow the flowers and remain on the plant all summer and fall. "May."

Red Tartarian. A popular shrub for the garden.

White Tartarian. Differs in color of flowers only.

Each, 12 cts.; 3 for 30 cts.; dozen, \$1.00 Postpaid.

HYDRANGEA.

(Paniculata Grandiflora.)

Blooms from August until middle or last of October.

Each, 10 cts.; 3 for 25 cts.; dozen, 90 cts. Postpaid.

FIELD-GROWN PLANTS BY EXPRESS.**At Purchaser's Expense Direct From Nursery.**

Honeysuckle, pink or white. 2 to 3 ft. Each 35c

Hydrangea Grandiflora. 2 to 3 ft. Each 50c

Lilac, purple or white. 2 to 3 ft. Each 35c

Snowball. 2 to 3 ft. Each 35c

Spirea. Bumalda. (Rose.) Each, 50 cts.

Spirea. Anthony Waterer. Each, 50 cts.

Steriles. (Common Snowball.) The old-fashioned shrub. Each, 12 cts.; 3 for 30 cts.; doz., \$1.00 Postpaid.

Plicatum. (Japan Snowball.) A new variety, very pretty. Each, 15 cts.; 3 for 35 cts.; doz., \$1.00 Postpaid.

SPIREA.

Aurea. Bright golden yellow foliage, small white flowers.

Billardi Rosea. Lovely rose colored flowers, blooms profusely.

Prunifolia. (Bridal Wreath.) Double, pure white flowers, borne profusely.

Anthony Waterer. A dwarf variety; color, a bright crimson.

Blue Spirea. A new creation; color, a rich lavender blue.

Each, 12 cts.; 3 for 35 cts.; dozen, \$1.00, postpaid.

SYRINGEA.

Double White. A variety with partially double, very fragrant flowers.

Garland. Pure white. Flowers, highly scented.

Aurea. (Golden.) Has golden yellow foliage.

Any of the above: Each, 12 cts.; 3 for 30 cts.; dozen, \$1.00 Postpaid.

WEIGELIA.

A strong vigorous growing shrub that can be used to the best of advantage either for single lawn specimens or for massing with other varieties.

Candida. Light green foliage, snow white flowers.

Floribunda. Dark crimson flowers, freely produced.

Rosea. Large rose-colored flowers.

Variegata. Leaves green, with a broad, distinctly defined margin of white around each. Blush Color.

Each, 12 cts.; 3 for 30 cts.; dozen, \$1.00, postpaid.

HARDY HERBACEOUS PLANTS.**For Permanent Planting in Garden Borders, Cemetery Plots. Etc.**

No Orders Accepted after the 15th of April.

Mailing Size Plants Sent Postpaid Direct From Greenhouses.**ACHILLEA.**

The flowers are borne in the greatest profusion the entire summer on a strong, erect stem. Pure white.

Each, 10 cts.; 3 for 25 cts.; dozen, 90 cts. Postpaid.

ANTHEMIS TINCTORIA.

One of the best yellow-flowering perennials. A continuous bloomer, succeeding in the poorest soil, withstanding both wet and dry weather.

Each, 10 cts.; 3 for 25 cts.; dozen, 90 cts. Postpaid.

COREOPSIS LANCEOLATA.

Begins to blossom in June and continues in flower until cut down by frost. The blossoms are of graceful form; a rich golden yellow color.

Each, 10 cts.; 3 for 25 cts.; dozen, 90 cts. Postpaid.

DICENTRA SPECTABILIS.

(Bleeding Heart.)

One of the finest plants known for borders, pots or for planting in any sunny situation. If potted in November and left outside until it has formed new roots and then is brought into gentle heat, it will flower early in March; in the open ground in April and May.

Each, 15 cts.; 3 for 35 cts.; dozen, \$1.25. Postpaid.

HELIOPSIS PITCHERIANUS.

(Orange Sunflower.)

A perpetual bloomer, commencing to flower early in the season and continuing in bloom the entire season. Grows to a height of 4 feet; flowers are golden yellow, golden yellow, about 2 inches across.

Each, 10 cts.; 3 for 25 cts.; dozen, 90 cts. Postpaid.

FIELD-GROWN PLANTS BY EXPRESS.**At Purchaser's Expense Direct From Nursery.**

Bleeding Heart. (Diantra.) Each, 50 cts.

Iris. (Fleur de Lis.) In colors. Each, 25 cts.

Perennial Phlox. In colors. Each, 25 cts.

Spirea. Van Houttei. (White.) Each, 50 cts.

Sumac. Cut-leaved. Each, 50 cts.

Syringea or Mock Orange. Grandiflora. Ea., 50 cts.

Syringea. Coronarnes. Pure White. Each, 50 cts.

Weiglia. 2 to 3 feet. Each, 50 cts.

IRIS.

The National flower of France and a great favorite. A profuse bloomer that will thrive anywhere under all conditions, if supplied plentifully with water. July.

German. Broad leaved, grows about 2 feet high.

Japanese. Narrow leaved. Very large, and a profuse bloomer. Each, 10c; 3 for 25c; dozen, 90c.

LILY OF THE VALLEY.

One of the most popular plants. Flowers are pure white. Succeeds well in almost any situation, but prefers shade with plenty of moisture.

Each, 5 cts.; 3 for 12 cts.; dozen, 35 cts. Postpaid.

HARDY PERENNIAL PHLOX.

Will thrive anywhere. Easiest plant to grow.

August Riviere. Fine bright red.

Coccinea. Glowing scarlet.

Coquette. White with crimson eye.

Cross of Honor. White with band of rosy lilac.

Eclairer. Reddish carmine with darker eye.

Edgar Quinet. Rosy Amaranth.

Isabey. Orange salmon; center, purplish crimson.

Lothair. Soft carmine pink; rosy eye.

Madame Bezanon. A splendid deep crimson.

Pantheon. Fine deep salmon rose.

The Queen. Pure white.

Each, 15 cts.; 3 for 35 cts.; dozen, \$1.25. Postpaid.

YUCCA FILAMENTOSA.

A stately, tropical-looking plant; evergreen, the stem rising three or four feet high from the tuft of narrow, bayonet-like leaves; creamy-white bell-shaped flowers.

Each, 15 cts.; 3 for 35 cts.; dozen, \$1.25. Postpaid.

FIELD-GROWN PLANTS BY EXPRESS.**At Purchaser's Expense Direct From Nursery.**

Paeonies. White, Pink and Red. Each, 25 cts.

Rudbeckia. (Golden Glow.) Each, 25 cts.

Yucca. (Adam's Needle.) Each, 50 cts.

ORNAMENTAL TREES.

Everything on this page shipped at Purchaser's expense, direct from Nursery.

TREES FOR STREET PLANTING.

American Linden or Basswood. A rapid growing, large sized, beautiful native tree, with large broad leaves and fragrant flowers, suitable for either street or lawn planting. 6 to 8 feet, 50 cts. each; 8 to 10 feet, \$1.00 each.

American Elm. This tree is noted for its gracefulness, beauty and majesty. It is of rapid growth and very desirable for street and park planting. 6 to 8 feet, 50 cts. each; 8 to 9 feet, 75 cts. each; 9 to 10 feet, \$1.00 each; 10 to 12 feet, \$1.50 each.

Ash-leaved Maple. (Box Elder.) A small native tree. Maple-like in its seeds and ash-like in its foliage; of spreading habit and rapid growth. 6 to 8 feet, 35 cts. each; 8 to 9 feet, 50 cts. each; 9 to 10 feet, 75 cts. each.

Carolina Poplar. The best poplar grown, pyramidal in form and robust in growth; leaves large, glossy, pale to deep green. Very rapid grower, suitable for lawns or street planting. 6 to 8 feet, 25 cts. each; 8 to 10 feet, 50 cts. each; 10 to 12 feet, \$1.00 each.

Norway Maple. A native of Europe. A large, handsome tree, of spreading, rounded form, with broad, deep green, shining foliage. Its compact habit and stout, vigorous growth render it one of the most desirable trees for the street, park, or lawn. 6 to 8 feet, 75 cts. each; 8 to 9 feet, \$1.00 each; 9 to 10 feet, \$1.50 each; 10 to 12 feet, \$2.00 each.

Silver Maple. Of rapid growth, large size and irregular rounded form. Foliage bright green above, silvery white underneath. Tree very hardy and easily transplanted. Valuable where quick shade is wanted. 6 to 8 feet, 25 cts. each; 8 to 10 feet 50 cts. each; 10 to 12 feet, \$1.00 each.

White Ash. A well known native tree, valuable for timber and shade. 6 to 8 feet, 50 cts. each.

EVERGREEN TREES.

Norway Spruce. A lofty, elegant tree of perfect pyramidal habit, remarkably elegant and rich; as it gets age, has fine, graceful and pendulous branches. 12 to 18 inches, 15 cts. each, \$1.50 per doz.; \$10.00 per 100, 18 to 24 inches, 25 cts. each, \$2.50 per dozen, \$15.00 per 100. 2 to 3 feet, 35 cts. each, \$3.00 per dozen, \$20.00 per 100. 3 to 4 feet, 50 cts. each, \$4.00 per dozen, \$30.00 per 100.

Balsam Fir. A very erect, regular, pyramidal tree, with dark green foliage; grows very rapidly and is very hardy. 15 to 20 inches, 25 cts. each; 2 to 3 feet, 35 cts. each; 3 feet, 50 cts. each.

Scotch Pine. A very noble and rapid grower; tree has strong, erect shoots and glossy green foliage. 2 to 3 feet, 35 cts. each; 3 to 4 feet, 50 cts. each.

Austrian Pine. Tree of very large growth, with long, stiff leaves and dark green foliage. 2 to 3 feet, 35 cts. each; 3 to 4 feet, 50 cts. each.

Mountain Pine. This is a dwarf tree or bush. Foliage dense and of a rich, dark green, very valuable for ornamental purposes. 18 to 24 inches, 50 cts. each.

Arbor Vitae. (American.) The finest evergreen for hedges. Grows rapidly and dense. It is not adapted to turn stock, but forms a most desirable and ornamental screen to divide the lawn from other parts of the grounds or any other purposes. 12 to 18 inch, 15 cts. each, \$1.25 per dozen, \$8.00 per 100. 18 to 24 inches, 20 cts. each, \$2.00 per dozen, \$10.00 per 100. 2 to 2½ ft., 25 cts. each, \$2.50 per dozen, \$12.00 per 100. 3 feet, 30 cts. each, \$3.00 per dozen, \$15.00 per 100.

TREES FOR LAWNS.

Bechtel's Double Flowering American Crab. (*Pyrus augustifolia*.) A medium-sized, hardy, ornamental tree of great beauty. When in bloom, this tree presents the appearance of being covered with roses. Fragrant. 4 to 5 feet, \$1.00 each.

Catalpa Speciosa. A valuable upright growing tree that is being planted extensively in the West and Northwest. It begins to blossom at 3 or 4 years and bears large clusters of white flowers, which, taken with its immense leaves, makes a beautiful ornamental tree. 7 to 8 feet, 50 cs. each; 8 to 9 feet, 75 cts. each; 9 to 10 feet, \$1.00 each.

Horse Chestnut. (White Flowering.) The common or European variety. A fine large tree of compact outline, dense foliage, profuse white flowers, tinged with red, borne in panicles in the spring. A most desirable tree for street or lawn planting. 5½ to 6 feet, \$1.00 each; 8 to 9 feet, \$1.50 each.

Mountain Ash. A fine hardy tree. Head dense and regular; covered from July till winter with great clusters of bright scarlet berries. 6 to 8 feet, 50 cts. each; 8 to 9 feet, 75 cts. each.

Oak-leaf Mountain Ash. Similar to the above, except the leaf is very much like a white oak leaf. 5 to 6 feet, 50 cts. each; 7 to 8 feet, 75 cts. each.

Purple-leaf Norway Maple. One of the most beautiful trees we know. Leaves in spring are brilliant purple, later changing to a dark rich green. Leaves on the new growth during the summer are bright purple, making the tree always beautiful. 5 to 6 feet, \$1.00 each; 6 to 8 feet, \$1.50 each; 8 to 10 feet, \$2.00 each.

WEeping TREES.

Birch. Cut-leaved. Beyond question one of the most elegant of all weeping or pendulous trees. Its tall, slender, yet vigorous growth, graceful, drooping habit, silvery white bark and delicately cut foliage, present a combination of attractions rarely met with in a single tree. 5 to 6 feet, \$1.00 each. 6 to 8 feet, \$1.50 each. 8 to 10 feet, \$2.00 each.

Camperdown Weeping Willow. Grafted 6 to 8 feet high, this forms one of the most picturesque drooping trees. It is of rank growth, the shoots often making a zigzag growth outward and downward several feet in a season. Leaves large, dark green and glossy. Each \$1.00 to \$1.50.

Maple. Wier's Cut-leaved (Weeping). A variety of silver maple with finely cut leaves and drooping limbs, making one of the most beautiful of weeping trees. 6 to 7 feet, 50 cts. each.

Weeping Russian Mulberry. The most graceful and hardy weeping tree, forming a perfect umbrella-shaped head, with long, slender, willowy branches drooping to the ground. It has beautiful foliage, is wonderfully vigorous and healthy and one of the hardiest of weeping varieties. Each \$1.50. Extra select, \$2.00 each. Extra high and perfect heads, \$2.50 each.

Wisconsin Weeping Willow. One of the best weeping willows grown. Grows rapidly, is perfectly hardy, and with its long, slender branches sweeping to the ground is exceedingly graceful and attractive. 5 to 6 feet, 50 cts. each.

No Charge for Packing

NURSERY STOCK

No Charge for Packing

Especial attention is called to the very superior quality of the nursery stock we supply. It is first-class in every respect.

Please order early. Make out your list to-day. We will ship your stock just as soon as soil and weather permits, and notify you when we have done so.

Orders for less than 1 dozen Trees to one person not accepted.

It costs US as much to pack one Tree as it does a dozen.

It costs YOU as much Express for one Tree as it does a dozen.

APPLES.

The first fruit, both in importance and general culture, is the apple. Unlike other fruit, its period extends nearly or quite through the year. By planting judicious selections of summer, fall and winter sorts, a constant succession can be had.

Our Apple Trees are especially fine. 5 to 7 feet high. 35 cts. each; \$3.50 per doz.; \$24.00 per 100.

Summer Varieties.

Yellow Transparent.—Of Russian origin, succeeds everywhere, medium size, pale yellow and of good quality. July.

Red Astrachan.—Large, roundish, nearly covered with deep crimson. Juicy and a good bearer. August.

Duchess of Oldenburg.—A large, beautiful apple, roundish. Streaked red and yellow. Tender and juicy. Very hardy. September.

Autumn Varieties.

Snow.—A round, medium sized apple, crimson and very juicy. Delicious. Tree, vigorous and productive. October to January.

Longfield.—A Russian variety. Tree a strong grower and an early and prolific annual bearer. Fruit fine, tender and juicy. A valuable hardy sort. November to February.

Wealthy.—Large, round fruit, smooth skin cover, mostly with red. Very juicy. November to March.

Wolf River.—"New." Fruit very large, skin greenish yellow, shaded with crimson; flesh white, juicy and tender. Very hardy and productive. November to March.

Pewaukee.—Large, bright yellow, striped and splashed with dark red; flesh white, tender and juicy. January to May.

McMayon.—Large and round, almost white, with faint bluish, flesh white, tender, tart, not very firm; a splendid cooker. October to February.

Winter Varieties.

Seek-no-Further.—Medium to large, round, striped with dull red russet dots; fine grained, tender, rich and excellent. A good grower and fruit bearer; fruit fair and fine. November to April.

Tallman Sweet.—Medium size, pale, whitish yellow, slightly tinged with red; flesh firm, rich and sweet. Hardy and productive. November to April.

Northwestern Greening.—A large, beautiful, yellow apple of excellent quality. A first-class keeper and with proper precaution will keep until June in an ordinary cellar.

CRAB APPLES.

Early and annual bearers, hardy and ornamental. 5 to 7 feet high. 35 cts. each; \$3.50 per doz.; \$24.00 per 100.

Whitney.—Very large, averaging 1½ to 2 inches in diameter. Skin smooth and glossy. Color green striped with carmine. Ripe the latter part of August.

Transcendent.—Immense producer. Red and yellow. August.

Sweet Russet.—Large, green, russet with a faint blush. One of the best for eating and cooking.

Burbank.—Large, nearly globular. Cherry red; flesh orange yellow and sweet.

SPRAYING FOR PROFIT.**A New Book.**

By Howard Evarts Weed,
Entomologist.

The most practical illustrated work on the subject.

Every Farmer, Gardener, Florist and Fruit Grower should have it. Price 20 cts., in coin or stamps.

We supply six at dozen, twenty-five at hundred rates.

Packing and delivery to railroad depot or express office free of charge. For light shipments we advise express; larger quantities or heavy packages generally go safely by freight. Purchaser pays transportation charges.

We shall be pleased to quote prices on different sizes, larger quantities, or other nursery stock than herein named. In corresponding, please state definitely size and number required.

PEARS.

While we do not recommend pears for general cultivation, there are many localities where they do well, and in such localities it will certainly pay to plant a few trees. The following are among the most reliable:

Our Stock is First-Class. 6 to 7 feet. 35 cts. each; \$3.00 for 6; \$5.75 per dozen.

Flemish Beauty.—A large, beautiful, melting sweet pear. Tree hardy and vigorous. September and October.

Keiffer's Hybrid.—Fruit is of good quality when thoroughly ripe. Valuable for either table or market. Does not blight easily. Tree in itself is very ornamental and a great bearer. Early.

Wilder.—Ripens about the first of August. Fruit small to medium. Quality very good.

Vermont Beauty.—"New." Fruit medium size, roundish in shape and skin yellow with deep shading of carmine. Quality very good. October.

CHERRIES.

Money and lots of it in cherries. Demand always greater than supply of this delicious fruit.

Selected Trees. 4 to 6 feet. 35 cts. each; \$5.75 per doz.

Early Richmond.—Medium size, melting, juicy and of acid flavor. Exceedingly productive; good for cooking. June.

Montmorency.—Larger than the Richmond and about 10 days later. Red.

Late Morello.—Large and juicy, dark red, very rich. Productive and profitable.

PLUMS.

A profitable market fruit of easy cultivation and salable. The following are all well tried and selected sorts:

Fine healthy trees. 5 to 7 feet, 55 cts. each; \$5.75 per dozen.

Forest Garden.—Large, yellow, turning to light red. Productive and of good quality.

Wolf.—Medium size, fine for cooking. A free stone. Tree, good grower and hardy.

Hawkeye.—Very large, color light mottled red, flesh yellow, juicy and pleasant. Tree, very vigorous.

De Soto.—At the head of the list for hardness, size and productiveness. Ripens in September and is of excellent quality. The best for the Northwest.

Hyslop.—A good keeper. Fruit in clusters. Dark red in color. Good for cooking.

Lombard.—Quite large, violet red, flesh yellow, juicy and sugary. A great bearer.

Moore's Arctic.—An eastern product; large cropper, medium size, purple.

Abundance.—Tree, a strong and handsome grower, thrifty and hardy. Commences bearing young and annually, produces large crops of showy fruit in great abundance. Shape, oblong; skin, bright red; flesh, yellow. Ripens in August.



BISMARCK APPLE.
MAILING SIZE TREE, SENT
POSTPAID.

This is perhaps the most wonderful new apple ever introduced. It originated in New Zealand and bears the second year after grafting. The fruit is remarkably large, very showy (bright yellow). It has already been tested in Europe, United States and Canada, and wherever grown it has proven a most astonishing revelation of apples in high quality and especially in earliness of fruit. It is also claimed that it is the only apple that will do well in hot countries. On account of its beginning to bear while young and owing to its bearing when only a small tree, it is frequently grown in pots simply as an ornament. Each, 25 cts.; 3 for 60 cts.; 6 for \$1.00.



Purchasers should order at least a half-dozen Plants, for "One Plant is as good as none."
The following Plants are all Shipped Direct from the Nursery to Destination.

STRAWBERRIES.

Those marked "P." are perfect in blossom and can be planted alone or are suitable to plant with the Pestilote to make them bear.

Those marked "I." have imperfect blossoms and must have some of the perfect blossom varieties planted with them, viz: one row of the Perfect to two rows of the Imperfect.

Crescent.—"I." Medium size, very productive. Good color and fair quality, early.

Burt.—"P." Very productive, berries unusually firm, ripening very late.

Warfield.—"I." A good shipper of rich color, large size, fine shape and good flavor.

Jessie.—"P." Fruit very large, quite firm, good color and excellent quality. Early.

Bubach.—"I." Fruit large, very red and ripens all over. Good flavor. Midseason.

Beder Wood.—"P." A very desirable berry for either home or market use. Early.

Haverland.—"I." Fruit large, bright red, very firm and ripens all over. Early.

Lovett.—"P." A fine grower, heavy bearer, good colored large berries. Midseason.

Prepaid, 25 cts. per doz., \$1.00 per 100, \$5.00 per 1000.

Not Prepaid, dozen, 20 cts.; per 100, 60 cts.; per 1000, \$4.00.

RASPBERRIES.

Transplanted Plants.

Begin to ripen with the last of the Strawberries. Plant in rows 5 ft. apart and 3 ft. apart in the row.

Gregg.—Fruit very large, of good quality, very meaty and firm. Very late.

Palmer.—Very profitable. Ripens its whole crop in a short time. Very early.

Columbian.—Fruit is dark red and of good quality. The best for canning. It is an extra strong grower and its immense canes are frequently loaded to the ground with its big luscious berries.

Louden.—The best hardy late red raspberry. A heavy yielder, of large size and very firm. As near perfection as it is possible to get.

Schaffer's Colossal.—Rightly named, for it is truly colossal both in plant and fruit. Good for home use. Too soft for shipping.

Prepaid, 6 for 35 cts., 60 cts. per doz., \$2.50 per 100.

Not Prepaid, 6 for 30 cts., 50 cts. per doz., \$1.50 per 100, \$8.00 per 1000.

BLACKBERRIES.

This valuable fruit begins to ripen before Raspberries are gone and continues until Grapes begin to ripen. Plant in rows 6 feet apart and 4 feet apart in row.

Stone's Hardy.—Very hardy and productive. Too well known to need further description.

Snyder.—A popular variety, hardy and productive. Valuable for marketing.

Ancient Briton.—Berries large and sweet and sells well in market. Very popular.

Prepaid, 6 for 40 cts., 75 cts. per doz., \$3.00 per 100.

Not Prepaid, 6 for 35 cts., 65 cts. per doz., \$2.00 per 100, \$10.00 per 1000.

GRAPE VINES.

Extra Strong Two-Year.

If planted by a fence or building, set plants 8 feet apart. For vineyard, make rows 8 feet apart.

Concord.—A large purplish black grape, ripening about the middle of September.

Worden.—A splendid black sort of the Concord type, but earlier and larger in bunch and berry.

Delaware.—"One of the finest." Bunch small, compact shouldered and berries small.

Niagara.—Strong grower, bunches large, berries white. Has a peculiar aroma.

Brighton.—A new red variety, highly recommended. Medium sized berries. Early.

Moore's Early.—One of the very best black early grapes. Cluster medium size, berry very large. Ripens nearly two weeks before the Concord and is of the same quality. Very profitable.

Moore's Diamond.—A new white grape, large in bunch and berry. Hardy and early.

Prepaid, 25 cts. each, \$2.20 per doz., \$11.50 per 100.

Not Prepaid, 20 cts. each, \$1.85 per doz., \$10.00 per 100.

CURRENTS.

Three Year Old Plants.

Currents are profitable for market, healthful for home use and should be found in every garden. Set plants 4 feet apart each way. Cultivate well.

Red Dutch.—This is the standard variety and well known everywhere.

Holland.—A strong grower and wonderfully prolific. It is quite late.

Fay's Prolific.—Bush not very strong, but bears well. Larger than others.

Victoria.—An exceedingly valuable late variety. A strong vigorous grower and immensely productive. Berries large, handsome and fine flavored.

White Grape.—Fine for table use. A good grower and productive. Sweeter than the red.

Lee's Prolific.—Black. The fruit is large and of superior quality. Very productive.

Prepaid, 15 cts. each, \$1.15 per doz., \$6.25 per 100.

Not Prepaid, 10 cts. each, 75 cts. per doz., \$5.00 per 100.

GOOSEBERRIES.

Extra Strong Plants.

Of easy cultivation. Plant in good rich soil in rows 5 feet apart and 3 feet apart in the row.

Houghton.—Small to medium; roundish oval, pale red, sweet and tender. Very productive and free from rust.

Downing.—Large, handsome, pale green and of fine quality, both for cooking and table use. One of the best.

Prepaid, 20 cts. each, \$1.50 per doz., \$8.00 per 100.

Not Prepaid, 15 cts. each, \$1.00 per doz., \$6.75 per 100.

Orders for Fruit Plants should reach us by April 1st.

INSECTICIDES, FUNGICIDES and FERTILIZERS.



Bordeaux Mixture. A good remedy for fungus diseases. Price, 1 qt. can (makes 50 gallons spray), 50c. Cannot be sent by mail.

Fir Tree Oil. Insecticide for greenhouse and house plants, especially for mealy bug, scale, red spider, black and green aphid, thrip, lice, worms and slugs. Per qt. 85c. Cannot be sent by mail.

Flour of Sulphur. For destruction of Mildew on roses, etc. Prepaid, lb., 25c; not prepaid, lb., 10c; 5 lbs., 45c; 10 lbs., 60c; 25 lbs., \$1.25; 50 lbs., \$2.50; 100 lbs., \$4.75.

Grafting Wax. ¼ lb., 15c; ½ lb., 40c, postpaid.

Hellebore, Powdered White. For the destruction of slugs, worms, caterpillars, etc. Can be used as a powder or dissolved 1 oz. in 3 gallons of water. Per lb., 25 c.; 5 lbs., \$1.10. Cannot be sent by mail.

Kerosene Emulsion. Prepared according to the most approved formulae; ready for use by simply adding water (25 to 50 parts water to one of Emulsion). For cabbage worm, scale on trees, caterpillars, all kinds, all sucking insects, either on plants or animals. Price, qt., 35c. Cannot be sent by mail.

London Purple. Good for Curculio, Codling Moth, Canker Worm, Pear Slug, Cabbage Worm, Cut Worm, all Leaf Eating Caterpillars, etc., on Potatoes, Apple, Pear, Plum, Cherry and Peach Trees. Per lb., 25c. Cannot be sent by mail.

Paris Green. Applied as a powder, it should be mixed with plaster or flour, 100 parts to 1 part of Paris Green; in solution mix 1 lb. in 200 to 300 gallons water. Price, ¼ lb. package, 15c; 1 lb. package, 25c; 5 lb. package, \$1.00; 28 lb. bucket, \$5.50; 100 lb. keg, \$18.00. Cannot be sent by mail.

Persian Powder. For worms, flies, aphid and almost all kinds of insects it is very effective, suffocating them by filling up the breathing pores. Prepaid, per 2 oz. box, 12c; 1 lb. box, 55 c; not prepaid, 2 oz. box, 10c; 1 lb. box, 40c; 5 lb., \$1.90.

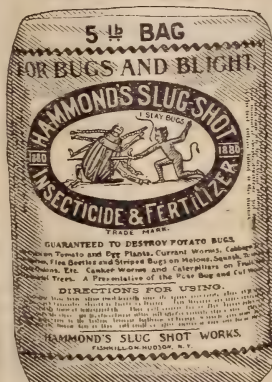
Slug Shot, Hammond's. Guaranteed to destroy potato bugs and those on tomato and egg plants, currant worms, cabbage lice and worms; fleas, beetles and striped bugs on melons, turnips, beets, onions, etc.; canker worms and caterpillars on fruit and other trees.

Pre- Not
paid Prepaid

I lb. paper carton, per-
forated top.....\$0.25 \$0.10
1 lb. tin canisters, per-
forated screw top..... .35 .20
5 lb. pkge., cannot be sent by mail.. .30
10 lb. pkge., cannot be sent by mail.. .50
In bulk, per bbl., 235 lbs.....\$9.40

Sulpho-Tobacco Soap. Quickly exterminates all insect life on plants and flowers in and out of doors. Unsurpassed for rose bushes. For a cheap, effective, clean and harmless insecticide for Amateur and Professional Growers this is unexcelled. It also acts as a valuable fertilizer, reviving plant life.

3 oz. cake, sufficient for 1½ gallons prepared solution, 10c; mailed postpaid, 13c; 8 oz. cake, sufficient for four gallons prepared solution, 20c; mailed postpaid, 28c; 10 lb. cake, sufficient for 80 gallons prepared solution, \$3.00. Cannot be sent by mail.



Tobacco Dust. One of the best remedies of green and black aphid, fleas, beetles, etc., also for insects in the ground. Prepaid, per lb., 25c; not prepaid, lb., 10c; 5 lbs., 25c; 10 lbs., 40c; 100 lbs., \$3.50.

Whale Oil Soap. Makes an excellent wash for trees and plants where insects and eggs affect the bark, and for smearing on the trunks of trees to prevent worms from crawling up.

Prepaid. Not Prepaid.
¼ lb. air tight box.....\$0.08 \$0.05
½ lb. air tight box..... .16 .08
1 lb. air tight box..... .30 .15

FERTILIZERS.

Darling's Celebrated Flower Grower.—This is an article which we put up especially for house plants. Small pkt., 15c; large pkt., 25c; by mail, postpaid, small, 20c; large, 35c.

Walker's Excelsior Plant Food.—An odorless and perfectly soluble food for house plants. A lb. box, sufficient for 25 ordinary-sized plants for one year. 1 lb., 25c; by mail, 40c; ½ lb. pkt., 15c; by mail, 25c.

"Brownie Brand" Bone Meal.—For rose culture. It is the pure bone meal, refined. Per lb. box, 25c; by mail, 40c.

Japanese Palm Food.—An odorless fertilizer specially prepared for palms, rubber plants and ferns. It will produce a luxuriant foliage of rich texture. Per lb. box, 25c; by mail, 40c.

Land Plaster. Bbl. (225-235 lbs.), \$2.00. Do not sell less than one bbl.

Darling's Tobacco Special Manure, for Lawns and Vegetables.—An odorless chemical dressing which does away with unsightly barnyard manure around your residence all winter, which is objectionable not only on account of looks and smell, but introduces seeds of obnoxious weeds. Per 10 lbs., 50c; 25 lbs., \$1.00; 50 lbs., \$1.60; 100 lbs., \$2.85; 500 lbs., \$10.50; 2,000 lbs., \$37.50.

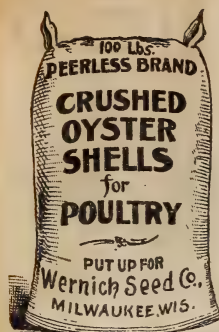
Bone Meal.—Guaranteed pure bone. It is ground fine and is an excellent top dressing for lawns, grass lands, farm and field crops; also for mixing with potting soil. 5 lbs., 20c; 10 lbs., 30c; 25 lbs., 60c; 50 lbs., \$1.10; 100 lbs., \$2.00; 500 lbs., \$8.50; 2,000 lbs., \$30.00.

Darling's Chicago Brand Manure.—Benefits all field crops, promotes maturity and affords nourishment the entire growing season. Use 2 to 300 lbs. per acre. Analysis ammonia, 2 to 3 per cent, and available phosphoric acid, 8 to 10 per cent; total phosphoric acid, 10 to 12 per cent, and actual potash, 2 to 3 per cent. Per 5 lbs., 20c; 10 lbs., 30c; 25 lbs., 60c; 50 lbs., \$1.00; 100 lbs., \$1.75; 500 lbs., \$7.50; 2,000 lbs., \$28.00.

Pulverized Sheep Manure.—Excellent for mixing with the soil for greenhouse plants—one part manure and six parts soil. Strewn over and dug into the vegetable garden or placed directly in drills or hills, it promotes a rapid, steady growth until maturity. For use in liquid form, one pound to five gallons of water will make a liquid which can be used with safety daily if necessary. Per 5 lbs., 15c; 10 lbs., 35c; 25 lbs., 60c; 50 lbs., 85c; 100 lbs., \$1.50; 500 lbs., \$5.25; 2,000 lbs., \$18.50.

Poultry Supplies.

The increasing demand for Poultry Supplies and the growing importance of this department of our business necessitates the issuing of a Special Supply Catalogue which we will be pleased to mail to all who write for it. Mailed free.



A Chick can't grow or a Hen lay unless you give them the proper materials with which to make bone and muscle or eggs. THAT'S PLAIN.
The following named foods supply the material for the growing bird and the laying hen.

POULTRY FOODS AND GRITS.

If by mail 16 cts. per lb. extra.

Crushed Oyster Shells. Fed to Poultry to supply the essentials in the formation of the egg. Per 10 lbs., 10c; 25 lbs., 20c; 100 lbs., 65c.

Mica Crystal Grit. This is fed to Poultry to aid in digesting their food. Per 10 lbs., 15c; 25 lbs., 25c; 100 lbs., 75c.

Granulated Bone. Made from fresh green bone, with the moisture and grease taken out. This is one of the best egg producers. Per 5 lb., 20c; 10 lb., 35c; 25 lb., 75c; 100 lb., \$2.15.

Raw Bone Meal. Made from raw bones ground fine. Fed in the mash feed makes chicks grow and laying hens strong. Per 5 lb., 20c; 10 lb., 35c; 25 lb., 75c; 100 lb., \$2.15.

Broiler Teeth. Made of one-third shell, one-third bone and one-third grit, the three most essential foods towards making shell. Mixed and ready to be fed. Per 5 lbs., 15c; 10 lbs., 20c; 25 lbs., 40c; 100 lbs., \$1.35.

Refined Charcoal. Aids digestion, purifies the crop and blood and regulates the bowels of Poultry. Per 5 lbs., 40c; 10 lbs., 75c; 25 lbs., \$1.50; 100 lbs., \$5.00.

Meat Meal. Made from the livers of slaughtered animals, cooked and ground and nearly odorless. Fed in mash. Per 5 lbs., 20c; 10 lbs., 35c; 25 lbs., 75c; 100 lbs., \$2.25.

Dried Blood. This is deodorized and very high in digestibility. Conceded to be the best egg producer on earth. Per 5 lbs., 30c; 10 lbs., 50c; 25 lbs., \$1.00; 100 lbs., \$3.75.

Linseed Meal. A great flesh producer for Poultry. Keeps them healthy. Fed in mash. Also fed to horses and cattle. Per 5 lbs., 20c; 10 lbs., 35c; 25 lbs., 75c; 100 lbs., \$2.00.

Blatchford's Poultry Meats. Contains Albumen, Beef Meal, Ground Shells, Sunflower Seeds, Iron, Red Pepper, Ginger and Oil, all carefully mixed and ground. A profitable Egg Producing Food. Per 5 lbs., 30c; 10 lbs., 55c; 25 lbs., \$1.25; 100 lbs., \$4.00.

Chamberlain's Chick Food. Contains over 30 varieties of grains and seeds, also meat, grit and bone. The only dry feed for little chicks made. Try it. Per 5 lbs., 25c; 10 lbs., 40c; 25 lbs., 90c; 100 lbs., \$2.50.

F. P. C. Chick Manna. A health food for little chicks, peculiarly adapted for the most critical period of little chicks. A special ten days food tending to make little chicks healthy, vigorous and developed. Use this as a first food, no matter what food is fed. Per lb., 10c; 5 lbs., 40c; 15 lbs., \$1.10; 60 lbs., \$4.20.

Puritan Chick Food. Positively checks the mortality so prevalent in broods of young chicks. Per 5 lbs., 35c; 10 lbs., 65c; 25 lbs., \$1.50; 50 lbs., \$2.50; 100 lbs., \$4.50.

Cut Clover. This is specially prepared for food for Poultry. Fed in the mash, it makes hens lay. Made from second crop pea green clover. Per 5 lbs., 25c; 10 lbs., 40c; 25 lbs., 75c; 50 lbs., \$1.25; 100 lbs., \$2.00.

Clover Meal. Made from the same stock as our Cut Clover. Per 5 lbs., 25c; 10 lbs., 40c; 25 lbs., 75c; 50 lbs., \$1.25; 100 lbs., \$2.00.

Grenadier Meal. A specific feed prepared on scientific principles for fattening Poultry for market. Write for booklet, "Poultry Fattening Perfected," which we mail free to all who ask for it. Per 5 lbs., 25c; 10 lbs., 40c; 25 lbs., 90c; 50 lbs., \$1.65; 100 lbs., \$3.00.

Midland Poultry Foods. Made in four brands for Poultry, and each one is for a specific purpose. No. 1, Nursery Chick Food. No. 2, Growing Chick Food. No. 3, Fattening Chicken Food. No. 4, Egg and Feather Producing Food. All are balanced rations ready to feed. For description of these brands write for booklet, "The Science of Poultry Feeding." Price, any brand, per 1/4 bu., 35c; 1/2 bu., 65c; bu., \$1.20; 2 bu., sack \$2.00; 5 sacks \$9.50; 10 sacks \$18.00; 25 sacks \$43.75. A 2 bu. sack contains enough to feed 700 hens one day.

EGG FOODS AND POWDERS.

Lee's Egg Maker. "Fifty Feeds for One Cent," as this is popularly known, has yet to find its equal. Contains 50 per cent blood meal and 50 per cent spices, roots and herbs. Per 2 1/2 lb. pack, 25c; by mail 65c.

Eggskum. Makes hens lay as surely as the sun makes light and will keep them in the pink of condition. It also makes the male birds more vigorous. Per pkg., 25c; by mail 31c.

Conkey's Egg Food. Helps moulting fowls and produces eggs, besides being a good conditioner at all times. Pkg., 25c; by mail 40c.

Imperial Poultry Powder. A tablespoonful to each chicken now and then will prevent disease and do wonders towards producing eggs. Per 1 lb. pkg., 25c; by mail 40c; 3 lb. pkg., 50c; by mail \$1.00.

Multum in Parvo Powder. A sure cure for Cholera, Roup and all diseases known to Poultry. 1/2 lb. pkg., 20c; by mail 28c; 1 lb. pkg., 35c; by mail 50c.

Madoc Gape Cure. An effective remedy for gapes. Will cause the worms to lose their power and the chick regain its strength. 6 oz. tin can 20c; by mail 28c; 15 oz. tin can 35c; by mail 53c.

Hen-Tone. A preventative of disease. A teaspoonful of Hen-tone in a quart of water and shake thoroughly. Of this solution you put one teaspoonful in each gall. of drinking water. Per box 25c; by mail 30c.

Conkey's Roup Cure. Cures Roup in all its form. It is put in drinking water and the chicken takes its own medicine. Small package makes 25 gallons medicine, 50c postpaid. Large package makes 75 gallons medicine, \$1.00 postpaid.

Roupino. Cures Roup, Canker, Catarrh, and all colds in all feathered stock. Per box, 50c postpaid.

Scabicide. A sure cure for chicken pox, scaly legs, pinched combs, etc. Per tin box 25c; postpaid.

Death to Lice Ointment. Sure death to lice on heads of little chickens. 1 oz. box 10c; postpaid; 3 oz. box 25c; postpaid.

LICE POWDERS.

		Not Prepaid.	Post-paid.
Lambert's Death to Lice.	5 oz. box.	\$0.10	\$0.15
Lambert's Death to Lice.	15 oz. box.	.25	.40
Lambert's Death to Lice.	48 oz. box.	.50	1.00
Lambert's Death to Lice.	100 oz. box.	1.00	2.00
Lambert's D. to L. Special.	4 oz. box.	.08	.12
Lambert's D. to L. Special.	16 oz. box.	.25	.40
Lee's Insect Powder.	20 oz. box.	.25	.45
Imperial Louse Killer.	16 oz. box.	.25	.40
Conkey's Louse Killer.	16 oz. box.	.25	.40
Licikil.	16 oz. box.	.25	.42

LIQUID INSECTICIDES.

	1 Qt.	1/2 Gal.	1 Gal.
Lambert's Liquid Lice Killer.	\$0.35	\$0.60	\$1.00
Sprague's Insect Killer.	...	.65	1.00
Lee's Liquid Lice Killer.	.35	.60	1.00
Dandy Lice Killer.	....	.60	1.00

SPRAGUE'S FLY BOUNCER.

Sprague's Fly Bouncer is guaranteed to do the work. It instantly drives away Flies, Mosquitoes and Insects from any animal sprayed with this magic liquid. Cows will feed quietly all day and give one-third more milk. Stock Cattle will fatten better and larger profits realized. Will prevent the Gadfly from striking sheep and causing Grub in the Head. It is economically and easily applied with any Atomizing Sprayer. Per 1/2 gal., \$1.00; 1 gal., \$1.50; 5 gal., \$7.00; 10 gal., \$12.00.

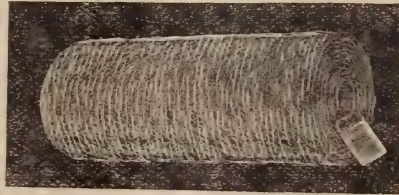
POULTRY SUPPLIES.



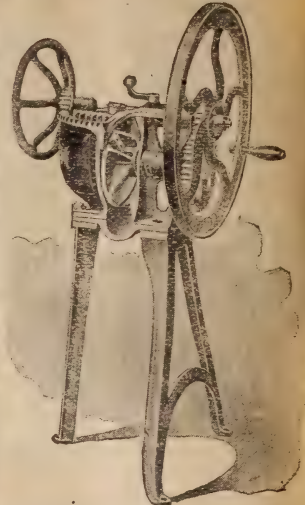
Thompson's Root Cutter.

ABSOLUTELY FREE.

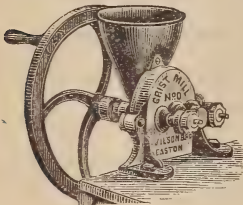
To all who ask for it we will mail our large, 40 Page **POULTRY SUPPLY CATALOGUE** which tells of all "Good Things and Necessities" for the Practical Poultry Keeper. We carry the largest stock of any Supply House, bar none, in the Northwest.



RUST PROOF POULTRY NETTING.



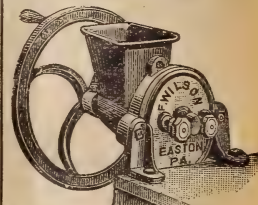
Humphrey Bone Cutter.



Wilson Grist Mill.

Put up in rolls of 150 lineal feet of No. 19 Galvanized Wire, 2 inch mesh. It is made with three strand rope selvages and is galvanized after being twisted.

Width of Netting.	Per Roll of 150 feet.	Width of Netting.	Per Roll of 150 feet.
12 inches.	\$0.80	48 inches.	\$3.00
18 inches.	1.15	54 inches.	3.40
24 inches.	1.50	60 inches.	3.75
30 inches.	1.90	72 inches.	4.50
36 inches.	2.25	84 inches.	5.25
42 inches.	2.65	96 inches.	6.00

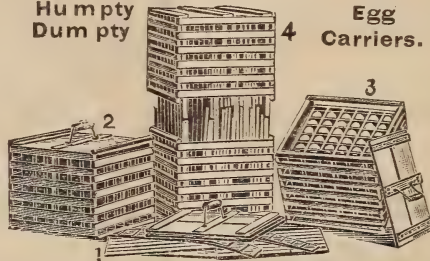


Wilson Bone Mill.

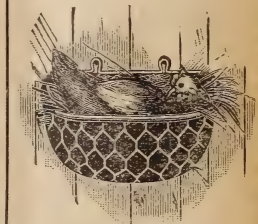


Gem Clover Cutter

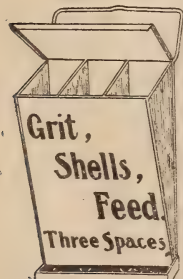
Humpty Dumpty



Egg Carriers.



Wire Hen's Nest.



Grit Box.

ROOT CUTTER.

Thompson's No. 7.....\$5.00

GREEN BONE CUTTER.

Humphrey\$12.00

CLOVER CUTTER.

Gem. On long legs.....\$9.00

Gem. On short legs..... 8.00

BONE MILL.

Wilson. For Bench.....\$3.50

Wilson. On Iron Stand.... 5.75

GRIST MILL.

Wilson. For Bench.....\$3.50

Wilson. On Iron Stand.... 5.75

GRIT BOX.

Sanitary\$0.50

DRINKING FOUNTAINS.

Sanitary. 1 Gallon.....\$0.50

Sanitary. 2 Gallons..... .85

CORN SHELLERS.

Champion\$2.00

FEED PANS.

Hallock. 1 Gallon.....\$0.75

Hallock. 2 Gallons..... 1.00

Hallock. 3 Gallons..... 1.25

WIRE HEN'S NEST.

1½ in. mesh, each 15c; doz. \$1.50

WERNICH'S EGG CASE.

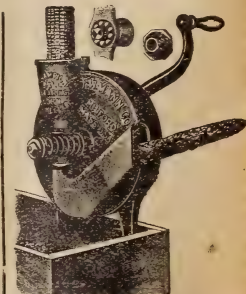
With Patent Fasteners....\$0.38

EGG CARRIERS.

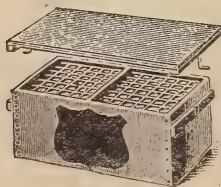
Humpty Dumpty.

Size, 6 doz., each 25c, doz., \$2.75

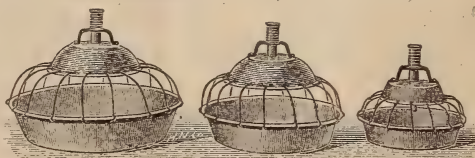
Size, 12 doz., each 35c, doz., 3.25



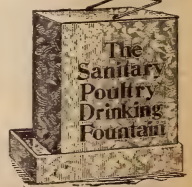
Champion Sheller.



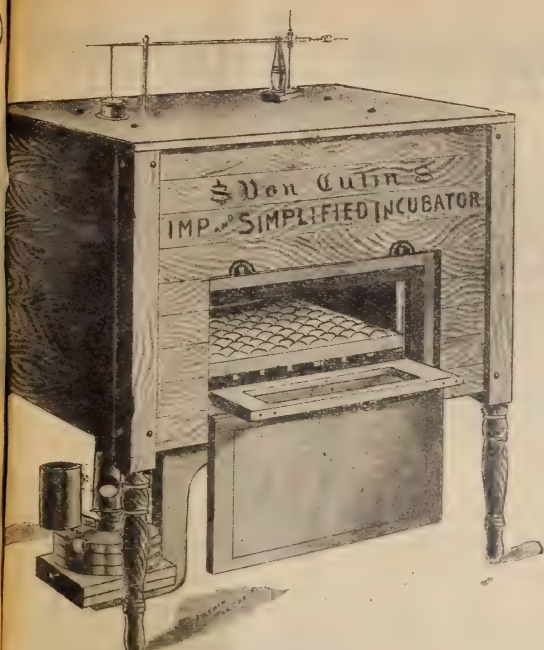
Wernich's Egg Case.



Hallock Feed Pans.



Sanitary Fountain.



Von Culin Incubators.

MOST PERFECT MADE.

THESE INCUBATORS HAVE A REPUTATION NEVER EXCELLED BY ANY OTHER MAKE.

INCUBATOR CATALOGUE FREE. WRITE FOR IT

Below we give a short description of the Von Culin Incubators. In fact it is not necessary to write a story about these machines. Their good points speak for themselves, and the hundreds of testimonials prove the manufacturer's claim to have the best Incubator made.

The "Simplified" Incubator

Realizing the demand for a good, reliable and practical incubator at a low price, we are offering such a machine. It has double packed walls, same thickness as the "Perfected" Incubator (with the exception of the front, which is only three inches) inside and outside doors, the same style thermostat as used in the "Perfected," hydrometal lamp, wicks, trays, thermometers, egg tester, etc., everything is complete and ready for hatching. Heater is full size of egg chamber and the latter is same depth as in the "Perfected," but has **no Nursery. It can be used with or without moisture.** They are made in three sizes, 60, 100 and 200 Egg Capacity. They are not toys, like most of the cheap grades of Incubators now on the market, but are practical machines and will do satisfactory work.

MADE IN THREE SIZES.

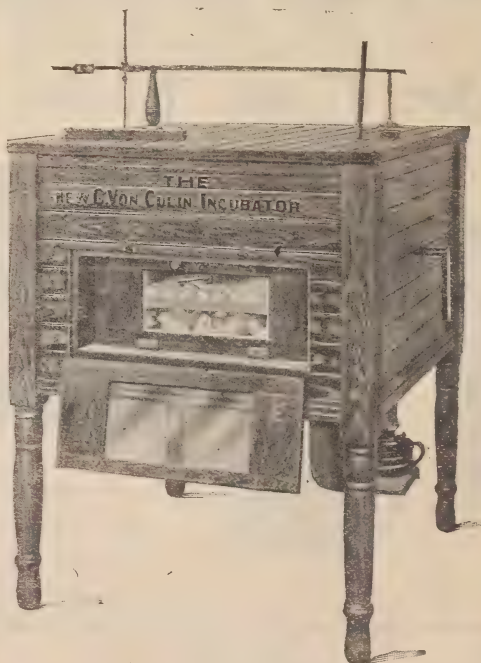
Capacity.	Approximate Weight.	F.O.B. Factory.	F.O.B. Milwaukee.
60 Eggs.	125 lbs.	\$ 7.00	\$ 8.00
100 Eggs.	200 lbs.	10.00	11.00
200 Eggs.	400 lbs.	18.00	20.00

The "Perfected" Incubator.

A perfect machine carefully and skillfully made of the best materials, the lumber selected and dry-kilned. The heat conductors are encased in mineral wool, one of the best non-conductors of heat and fire-proof; no air space is left around them. They are fastened in place with fire-proof cement and the lamps are metal and non-explosive. The Von Culin Incubators have double and packed walls 6 inches thick, requiring about one-third the amount of oil to complete a hatch that it takes with other Incubators. These thick walls protect the egg chamber from changes of the outside atmosphere. The heater is full size of the egg chamber, thus giving uniform temperature in all parts. The egg trays are so arranged that all kinds of eggs can be placed in them.

NURSERY BELOW THE EGG TRAY.

Chick trays in the Nursery receive the chicks as they dry off, and they remain in the Nursery until the hatch is completed, thus it is not necessary to open the Incubator after eggs begin to hatch until finished. The Regulator is positive and reliable, and every one carefully tested. The Regulator or Thermostat is located in the egg chamber and connected to levers on top of Incubators, as shown in the illustrations. These levers are metal and have caps or covers on the ends which open or close, the heat escapes directly over the lamp or lamps. Heat is distributed by the lamp or lamps through heat flues into the heater at different points, thus insuring uniform heat in the egg chamber. The acknowledged proper heat for hatching is about 103 degrees, and these machines are so regulated that when it reaches 102, the cap or caps begin to raise, and when it reaches above 103 degrees, they raise high enough to allow the heat from the lamps to escape direct and not enter the heater until the temperature gets down to 103 again, when they gradually close and the heat all goes into the heaters, where it is drawn towards the center by an equalizer inside the heater. This system works so perfect that it is impossible to overheat or chill the egg chamber. The ventilation is so arranged that any amount of fresh air can be introduced into the egg chamber at will. These Incubators can be run with or without moisture. There is an inside and outside door, each having double glass with an air space between the glass. Each door closes into a rabbeted frame with air space between them. The lamp brackets are simple and safe. The thermostat is permanently fixed in the egg chamber, but may be quickly removed if necessary. The outside parts of Regulator are especially fitted and carefully packed in a box when shipped. Every Incubator sent out is complete, ready to start, excepting oil for lamps.

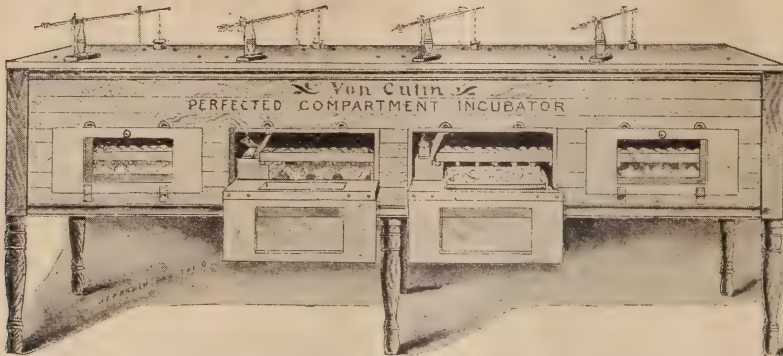


MADE IN THREE SIZES.

Capacity.	Approximate Weight.	F.O.B. Factory.	F.O.B. Milwaukee.
120 Eggs.	225 lbs.	\$18.00	\$19.25
288 Eggs.	500 lbs.	25.00	27.50
480 Eggs.	700 lbs.	35.00	38.25

Full Directions Sent With Each Incubator.

Von Culin Compartment Incubators



The Compartment Incubators are made with from two to four compartments of 120 eggs to each compartment. Each compartment is an entirely separate incubator, each having a separate regulator and may be operated separately, all at one time, or at different times. When one has a variety of fowls and wishes to set the eggs separately, or when a limited number of fowls are kept, one may fill a compartment at different times, making it necessary to keep the eggs three weeks. With a two compartment, eggs may be put in each compartment every ten days, a three compartment every seven days, and a four compartment every five days. Where one operates several large incubators, a compartment incubator is very handy to finish out the last part of the hatch of the larger machines, which will enable one to save time in filling the larger incubator again. Where one has a variety of eggs, they may assort the white eggs from the dark eggs, the thick shell from the thin shell, and put each in separate compartments, thus making it possible to better supply ventilation or moisture as the case may require, according to eggs, climate, season or location in which the incubator is placed. The above illustration shows our Four Compartment Machine, which is practically Four—Perfect 120 Egg Size Incubators in one, each compartment separated from the other by double packed walls, making an entirely separate incubator. The Two and Three Compartment Machines are built the same way. These are the finest machines made at any price.

Three Sizes.		Total Capacity.	Approximate Weight.	Prices.	
				F. O. B. Factory.	F. O. B. Milwaukee.
	TWO COMPARTMENT.	240 Eggs.	500 lbs.	\$30.00	\$32.50
	THREE COMPARTMENT.	360 Eggs.	700 lbs.	42.00	45.50
	FOUR COMPARTMENT.	480 Eggs.	950 lbs.	54.00	58.75

At prices quoted f. o. b. Milwaukee we will prepay freight to any Station in the U. S. east of the Mississippi River.

Von Culin Indoor and Outdoor Brooders



100 Chick Outdoor
Brooder with
Covered Run.

INDOOR BROODERS.

An Indoor Brooder is one that is intended to be used in a poultry house, room or outbuilding, but requires no other than that supplied by its own heater.

Size.	Approx. Weight.	f. o. b. Fac.	f. o. b. Milw.
50 Chick., without Run.	45 lbs.	\$3.00	\$3.25
50 Chick., with Run.	75 lbs.	4.00	4.75
100 Chick., without Run.	100 lbs.	5.00	5.50
100 Chick., with Run.	175 lbs.	6.00	7.00

Indoor Brooders with or without runs can be converted into Outdoor Brooders by putting tops or roofs on them. We can supply them or they can be made at home.

OUTDOOR BROODERS.

The Outdoor Brooder is one that may be used outdoors, being a house and brooder combined. The illustration shows the Brooder with covered Run. Brooder can be bought separately, i. e., without run. We give price with and without.

Size.	Approx. Weight.	f. o. b. Fac.	f. o. b. Milw.
50 Chick., without Run.	50 lbs.	\$4.00	\$4.50
50 Chick., with Run.	85 lbs.	5.50	6.25
100 Chick., without Run.	150 lbs.	7.00	8.25
100 Chick., with Run.	200 lbs.	9.00	10.25

Outdoor Brooders and Runs can be converted for indoor use by simply removing roofs.

The Von Culin Brooders are built in Sections, making it easy to clean them.

BROODERS IN FLAT.

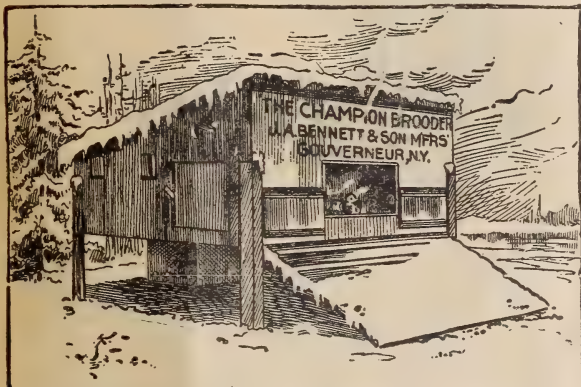
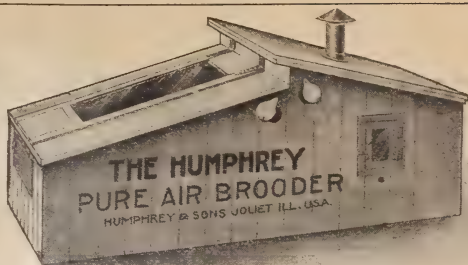
All wood parts cut, ready to put together. Flannel ready to tack on. Heater made. Lamp, Metal Chimney, Hinges, etc., to complete Brooder. Sold only in lots of six or more at prices given below.

Size.	Indoor.	Outdoor.
50 Chick.	Per 6, \$15.00	\$21.00
100 Chick.	Per 6, 24.00	36.00

THE HUMPHREY PURE AIR BROODER.

**Formerly Called the Up-to-date.
One that will Raise Chickens Outdoors
as Well as Indoors.**

The Humphrey Pure Air or Up-to-date Brooder is just what its name implies. It is 34x70 inches, inside measurement, giving a brooder room 34x36 inches and a play room 34x34 inches. It is built of the best material and paper lined. The Hoyer is made of galvanized iron, 28 inches in diameter by 1 1/4 inches thick. The heating system is such that it prevents any cold corners and furnishes an abundant supply of heat which is regulated by means of a disk regulator, a marvel of sensitiveness and accuracy which will keep the temperature under the hover within 3 to 5 degrees of the same temperature all the time. In zero weather no trouble is experienced to keep the temperature under the hover from 90 to 100 degrees. All fumes and smoke from the lamp are carried through a chimney direct through to the open air, a feature not found in any other brooder. A constant supply of fresh air is brought in in a steady stream from the outside in two pipes, which extend to each side of the Brooder. This air after becoming thoroughly heated, is discharged just under the hover over the heads of the chicks. There is a glass door 6x10 inches on both sides of the Brooder through which the regulator can be adjusted. A glass 5 inches square is placed just under the outer edge of the hover (leaving a place in the curtain to suit) through which one can see the chicks and how they are doing, and read the thermometer without opening the door at all. Double curtains are suspended from the hover and one to divide the play room from the brooder room, besides an extra board on hinges to be let down very cold nights between the two rooms. Ventilation holes with adjustable covers are provided for up in the very peak of the brooder room and play room. The floor of the play room is 3 inches lower than the brooder room; the roof has a glass down the center 12x24 inches, furnishing sunlight and leaving 12 inches shade on each side and 8 inches at the bottom, thus providing the three important elements of nature necessary for life, viz., light, sun and shade. For further information regarding this brooder, write for special circular. Weight, 240 lbs. Price, f. o. b. factory, \$16.00.



The Brooder is 3x3 feet in size, while the Combination Brooder and Brooder House is 3x6 feet and 2 feet high.

THE CHAMPION BROODER.

A perfect Brooder, strongly made of good lumber, tongued, grooved and planed on both sides. The roof is sloping, slanting to the rear and is painted with a high priced durable weather and water-proof roofing paint. It has double floors between which a stream of fresh, warm air, is constantly flowing, thus ensuring a warm and dry upper floor for the chicks and effectually insulating the brooder floor and chicks from the severest winter weather. The system of heating is perfect and different from other brooders. The heat is distributed in all parts of the hover equally, there are no cold corners or hot center. The ventilation is extremely simple and perfect.

	Price	Price
Weight.	f. o. b. f. o. b.	N. Y. Milw.
Champion Brooder	100 \$5.00	\$5.75
Champion Brooder with run- way (see picture)		5.75 6.50
Champion Brooder with run- way and yard on legs.	135 6.50	7.25
Combination Ch a m p i o n Brooder & Brooder House.	200 10.00	11.50

WHITEWASH AND PAINTING MACHINE.

**RIPPLEY'S WHITEWASH AND PAINTING MACHINE. USED AND EN-
DORSED BY LEADING AUTHORITIES. WITH THIS MACHINE ONE
MAN CAN DO THE WORK OF FIVE MEN WITH BRUSHES IN
THE SAME LENGTH OF TIME.**

After many experiments and repeated failures we now offer our customers one of the finest, cheapest and best Painting and Whitewashing Machines ever placed on the market. By using this machine every crevice and corner which cannot be reached with a brush can be thoroughly painted or whitewashed at the same time, saving a great deal of labor and expense. Whitewashing and painting is a dreaded job when brushes are used, but this machine reduces the labor, and saves four-fifths of the time.

Can also be used as a Sprayer in the Garden or Orchard.

Construction.—The body is made of No. 24 Galvanized Steel and is fitted with a first-class Ball Valve Brass Cylinder Pump, which will produce 150 pounds of pressure. It is fitted with an agitator which works at every stroke of the pump and keeps the solution thoroughly agitated. Top is removable to clean machine.

**Every Machine Tested Before Leaving Factory. Sold Under a Guar-
antee to be as Represented.**

Price, No. 6, 8-gallon, Galvanized Iron Machine, 10 feet best one-half inch hose, one nozzle and one 8-foot extension rod (weight, crated, 35 lbs.), \$12.00. Pre-paid by freight, \$12.75.



MATERIAL STRAINERS.

All mixtures must be carefully strained to insure perfect uninterrupted service of pump and nozzle. Burlap will not do on account of the lint, which clogs the nozzles. We offer here a strainer which will do the work thoroughly.

Price, 12 in. diam., copper screen, \$1.50; 10 in. diam., galvanized iron, 65 cents.

“Iron Age” Farm and Garden Tools for 1903.

Write for Special Catalogue of these Tools. Mailed free.

The “Iron Age” Garden Tools have become immensely popular, owing to their new and up-to-date construction. They are equipped with high, steel wheels, very light tubular frame, connected with malleable iron castings—really bicycle construction, and in consequence they are exceedingly light, convenient, easy to handle and very handsome in appearance.

Prepaid—Orders for these Tools or for Seeds and Tools (Seeds not prepaid unless so offered on other pages) amounting to \$7.50 will be prepaid to any railroad station in the United States within five hundred miles of Milwaukee or Chicago.

No. 22 “Iron Age” Combined Fertilizer Distributer, Hill and Drill Seeder.

Weight, Boxed, 65 lbs., Price, \$17.00.

Although a tool designed to do so much, it is perfectly simple, light of draught, strong, and perfection in the quality of work done by it.

The Opening Plows of the Fertilizer Distributer are made of such shape as to encase the two fertilizer distributing tubes (one in each plow) leading from the Fertilizer Hopper. These plows are adjustable in depth and width, which allows the adjustment of the depth at which the fertilizer is sown and allows its distribution in narrow streams at different distances. The Plows are immediately followed by the covers which draw the soil over the fertilizer just deposited.

The Fertilizer Distributer is thoroughly reliable in its distribution of fertilizer. It contains a force feed device which prevents stoppage by small lumps.

The Seed Sowing Device is practically the same as used on our Nos. 6 and 15 Combined Seed Drills. The seed may be sown in rows or dropped in hills at 4, 6, 8, 12 or 24 inches apart.



No. 15. “Iron Age” Combined Single Wheel Hoe, Hill and Drill Seeder.

Weight, Boxed, 49 lbs. Price, \$10.00.



Combined in this tool is the best Hill and Drill Seeder and Single Wheel Hoe ever offered to the public. In combining these tools, not a single advantage of a separate Single Wheel Hoe or Drill Seeder is lost. As each they are in themselves complete. Changed from one form to the other almost instantly, completely filling every desire both as to method of handling seed and soil. It places the seed in hills or drills, it plows, it rakes, it opens furrows, it covers, it hills, it hoes, it cultivates. The wheel is made of steel, 16 in. high; the frame of pipe, coupled to malleable castings, therefore light (runs easy), strong and durable.

No. 16, “Iron Age” Hill and Drill Seeder.

Wt., Boxed, 46 lbs., Price, \$7.50.

This is the same as the No. 15 excepting it has not the attachments that appear in the illustration. It is a plain Seeder only.



No. 17. Combined Single Wheel, Hoe and Drill Seeder.

Weight, Boxed, 45 lbs. Price, \$9.00.

This tool is very similar to the No. 15, minus the Hill dropping device. Sows in a continuous row only. It plows, it rakes, it opens furrows, it covers, it hills, it hoes, it cultivates.



No. 18, “Iron Age” Drill Seeder.

Wt., Boxed, 44 lbs. Price, \$6.50.

Same as the No. 17 minus attachments or cultivating tools, Plain Seeder only.

No. 6, “Iron Age” Combined Double Wheel Hoe, Hill and Drill Seeder.

Weight, Boxed, 50 lbs., Price, \$11.00.

This tool will sow all the small seeds varying in size from celery to corn, in drills or drop in hills at 4, 6, 8, 12 or 24 inches apart.

By a convenient hook the tool can be instantly changed to a Drill Seeder, or the reverse. The Opening Plow is clog proof; all trash which may come in contact with it is ridden down.

The Marker is pivoted in the rear of the hopper and can be thrown from side to side by the foot. This tool is without doubt the most complete tool ever offered to the public.

No. 7, “Iron Age” Hill and Drill Seeder.

Same as the No. 6 minus the extra attachments. Plain Seeder only. Weight Boxed, 39 lb. Price \$8.00

"IRON AGE" FARM AND GARDEN TOOLS—Continued.**No. 12—"IRON AGE" WHEEL PLOW AND CULTIVATOR.****Weight, Boxed, 20 lbs. Price, \$3.00.**

In the accompanying cut we show a tool of exceeding lightness but of great strength, which is designed to do a greater variety of work than any other tool of the same price. It will accomplish all the work in cultivating

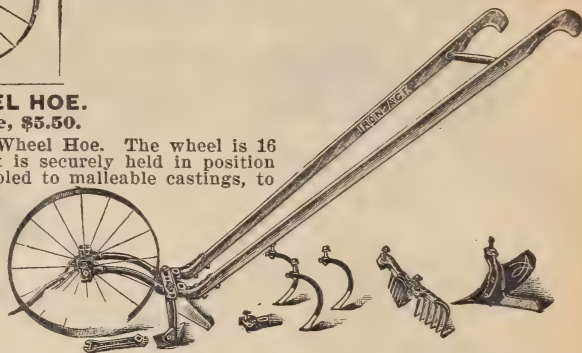
needed to be done in a small kitchen garden—plowing, furrowing, covering, hoeing, raking and cultivating. This tool is emphatically a friend of the laborer or mechanic who can afford only to invest a small amount of money in a garden tool, and whose few moments in a garden must be devoted to "straight-ahead" work.

**No. 20—"IRON AGE" WHEEL HOE.****Weight, Boxed, 28 lbs. Price, \$5.50.**

The No. 20 is the latest and most complete Single Wheel Hoe. The wheel is 16 in. high and has a broad faced tire $1\frac{3}{4}$ in. wide. It is securely held in position by two rigid arms which are made of tubing and coupled to malleable castings, to which the working tools and the handles are attached.

Add for No. 4 Drill Seeder attachment, for sowing seeds in rows only.....\$3.50

Add for No. 6 Hill and Drill Seeder attachment, for sowing seeds in rows or hills..... 4.50

**No. 9—"IRON AGE" SINGLE WHEEL HOE.****Weight, Boxed, 28 lbs. Price, \$4.75.**

The same principle of construction is applied to this tool as contained in the popular No. 1 Iron Age Double Wheel Hoe.

The Wheel is made of steel 16 inches high, and the frame is made of pipe coupled to malleable castings. While the tool is light, it is exceedingly strong. It is a great favorite in the kitchen and flower gardens.

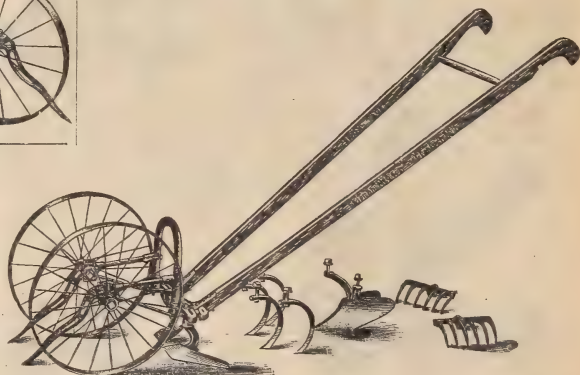
With its various working tools, a great variety of work can be accomplished.

**No. 1—"IRON AGE" DOUBLE WHEEL HOE****Weight, Boxed, 40 lbs. Price, \$6.50.**

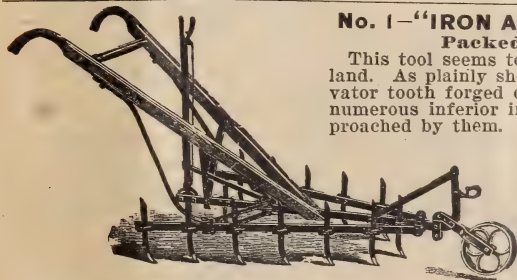
In cultivating onions, turnips, radishes, etc., this tool is invaluable, saves hours of hard labor, and does the work better than several men could do it in the same time. One great advantage is, that it can be made into a complete Single Wheel Hoe in a moment's time.

Add for the No. 4 "Iron Age" Drill Seeder attachment, for sowing seeds in rows only.\$3.50

Add for the No. 6 "Iron Age" Hill and Drill Seeder attachment, for sowing seeds in rows or dropping in hills..... 4.50

**No. 1—"IRON AGE" COMBINED HARROW AND CULTIVATOR.****Packed, Weight 60 lbs. Price, as in cut, \$6.00.**

This tool seems to go "right to the spot" among the farmers over the whole land. As plainly shown in cut, the teeth are diamond shape with a small cultivator tooth forged on one end. In common with all good things, this tool has numerous inferior imitations, but for solid quality, design or finish, is not approached by them.

**No. 6—"IRON AGE" HORSE HOE AND CULTIVATOR.****Packed, Wt. 95 lbs. Price, as in cut, \$8.50.****Without Furrow Closing Attachment, \$7.25.**

The No. 6 "Iron Age" Horse Hoe and Cultivator is truly a 20th century tool. It heads the procession. Its great adjustability adapts it for numberless uses and conditions.

The Furrow Closing Attachment is a special feature. It fills in that objectionable furrow or gutter left next the growing crops in all cases where an ordinary



furrow tooth cultivator is used.

"Planet Jr." Tools for 1903. PREPAID To Cash Buyers.

"Planet Jr." No. 4, Combined Hill and Drill Seeder, and Single Wheel Hoe, Rake and Plow.



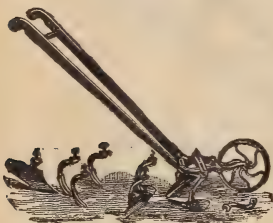
Sows in hills or in a row. Drops at 4, 6, 8, 12 and 24 inches apart, and also in a continuous row. Has 16-inch broad-faced wheel. Hopper holds 3 pints. Weight, boxed, 51 lbs. Price\$10 50

"Planet Jr." No. 25, Com. Hill and Drill Seeder, and Double Wheel Hoe.



Will sow in hills or drills and drops at 4, 6, 8, 12 or 24 inches. Has 11½-inch wheels. Hopper holds 2½ quarts (about 5 lbs. onion seed). Price\$13 50

No. 16, Single Wheel Hoe, Cultivator, Rake and Plow.



A useful tool and identical to the No. 15, excepting that it has fewer tools. Has 1 pair Hoes, 3 Cultivator Teeth, 2 Rakes, Plow and Leaf-Lifter. Weight, boxed, 26 lbs. Price\$5 85

"Planet Jr." No. 8, Horse Hoe and Cultivator.

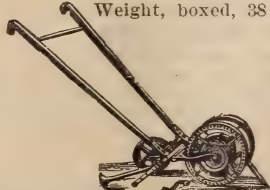


Built to withstand incredible strain, yet it is light and easy to handle. Has patent depth regulator and lever expander. Weight, 83 lbs. Price, as in cut,\$8 00

Planet Jr. No. 7. Similar to No. 8, except it has no depth regulator. Weight, 78 lbs.\$7 50

These Standard Garden Tools prepaid to our customers. To all railway stations in the U. S. east of the Rocky Mountains, if order for Tools, or Tools and Vegetable Seeds, combined, amounts to not less than \$7.50. This prepayment applies to tools only and not to other articles offered in this catalogue unless they are marked "prepaid" where described. Our central location offers us the best possible shipping advantage which we now give our customers in free delivery of these garden tools.

"Planet Jr." No. 2, Drill Seeder. Weight, boxed, 38 lbs.



Known the world over. The Sowing Cylinder holds 2½ quarts. It sows evenly whether there is much or little in the hopper.\$7 50

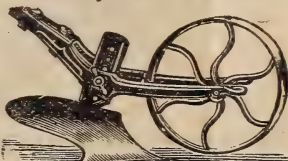
"Planet Jr." No. 1, Combined Drill Seeder and Wheel Hoe, Cultivator, Rake and Plow.



Has a complete set of cultivating tools. Used as a Drill it does perfect work. Hopper holds 1 quart. Is quickly changed to cultivate and other uses.

Weight, boxed, 47 lbs. Price\$9 50

Fire-Fly Garden Plow.



Most useful in small gardens. Weight, 13 lbs. Price\$2 35

"Planet Jr." Harrow and Cultivator.



A useful tool, and one much liked by the gardener. Carefully made and finished. Hand levers regulate both width and depth while in motion.

Price, plain, Wt., 54 lbs.\$5 50

Price, with Wh'l, Wt., 67 lbs. .. 6 50

Price, complete as shown in cut, Wt., 75 lbs. 8 00

"PLANET JR." No. 3

Hill Dropping
Seed Drill



Will sow in a continuous row, but will also drop neatly in hills either 4, 6, 8, 12 or 24 inches apart. Has a 15-inch wheel. Hopper holds 3 quarts. Weight, boxed, 51 lbs. Price\$10 50

"Planet Jr." No. 20, Fertilizer, Pea and Bean Drill.



The most perfect Tool for drilling fertilizers, Peas and Beans. Has a 20-inch wheel with broad face and runs easy. The Hopper holds ½ bushel. Weight, boxed, 64 lbs. Price\$13 00

"PLANET JR." No. 15

Single Wheel Hoe,
Cultivator, Rake
and Plow.



The latest and best single wheel Hoe. Has 11-inch wheel with broad face. Outfit consists of 1 pair small Hoes, 1 pair large Hoes, 3 Cultivator Teeth and 3 Rakes and Plow. Weight, boxed, 30 lbs.\$7 00

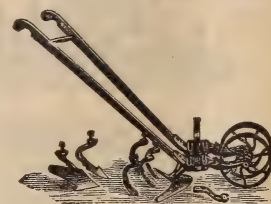
"PLANET JR." No. 11

Double Wheel Hoe,
Cultivator, Rake
and Plow.



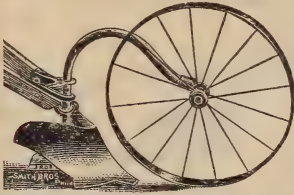
Has 11-inch wheels. It has the following tools: 1 pair large Hoes, 4 Cultivator Teeth, 4 Rakes and 1 pair Plows. Weight, boxed, 38 lbs.\$9 00

No. 12, Double Wheel Hoe, Cultivator and Plow.



Same as No. 11 Wheel Hoe, only has fewer attachments. Outfit consists of 1 pair Hoes, 4 Cultivator Teeth, 2 Plows and 2 Leaf-Lifters. Weight, boxed, 31 lbs.\$7 00

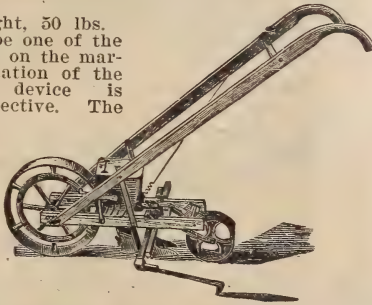
The No. 11 Iron Age Wheel Plow.



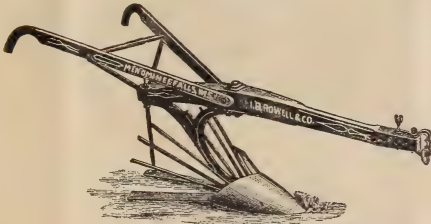
A beauty. Its graceful shape and exceeding lightness accord well with its ease of operation and perfection of work. Adjustable in depth. It will plow three to four inches deep and throw a furrow four to six inches wide. Poultrymen will find this tool to be the easiest, quickest and most efficient implement for turning under the accumulated filth and droppings in their poultry yards. Packed, Weight, 20 lbs.
Price\$2 00

New Model Seed Drill.

Boxed, Weight, 50 lbs.
Conceded to be one of the best Seed Drills on the market. The regulation of the seed sowing device is simple and effective. The Index is plain, convenient and reliable. The material, dust best value in durability and true merit.
Cheaper than ever at \$6.50.

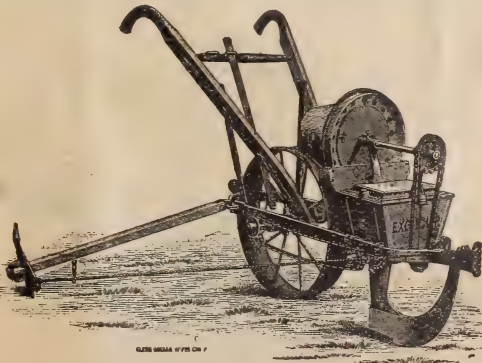


Potato Digger.



Clipper, 85 lbs., price only\$5 90
Hartford, 75 lbs., price only 3 75

Excelsior Steel Frame Corn Drill.



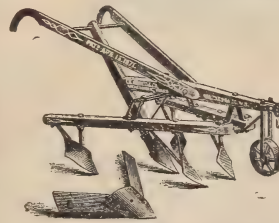
The Frame is built of steel. Wheel is made of wrought iron and cannot break. Will positively drop one grain of corn 12, 15, 18, up to 24 inches apart. Distance gauged by different seed plates. At a small cost we can furnish additional plates for planting small seeds.
Price, without Fertilizer Attachment, Weight 100 pounds\$ 9 90
Price, with Fertilizer Attachment, Weight, 115 pounds 12 25

Bateman's Hand Garden Plow



A simple and very effective Tool, one that stands against the garden fence always ready for use. While it will not break ground in the spring it is very useful in opening furrows for seeds and manures, for covering them, and for tending the crops afterwards. Moldboard made of highly polished steel. Has side handle and being regulated in depth by a simple thumb nut is the most manageable tool of the kind yet produced. Weight, 6 lbs. Price, each, \$1.10; 3 for \$3.10.

Wernich's Horse-Hoe or 5-Tooth Cultivator.



With large Hilling Shovel, Solid Tooth and Slip Tooth. Durable and Serviceable. Weight 70 lbs.
Complete, cheap at only \$3.95.
Without Large Hilling Shovel, \$3.50.
The best bargain of a serviceable tool ever offered to the farmer.

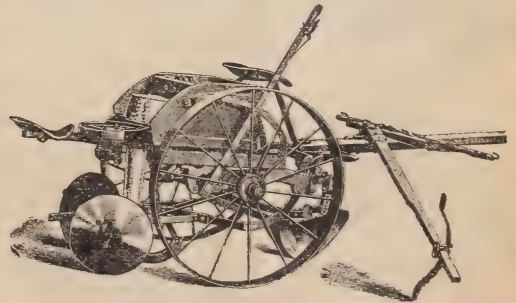
Wing Shovel Plow, or Potato Hiller.



Wings are hinged and adjustable in width.

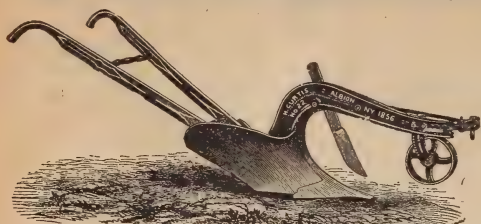
Price, "Star," 60 lbs.\$2 95
Price, "Rowell," 65 lbs. 3 15

Improved Robbins Potato Planter.

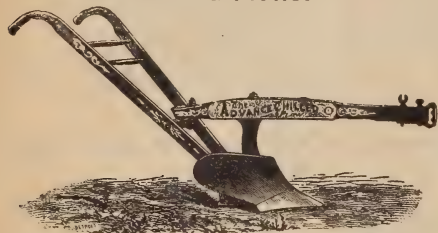


Lack of space prevents us from giving a thorough description of this Planter. To all who are interested in and think of getting a Planter, we shall be pleased to mail a Catalogue describing every part of this Planter.

Price, with Fertilizer Distributor\$75 00
Price, without Fertilizer Distributor 65 00

No. 126. Steel and Cast Moldboard Plows.

No. 126. Steel Plow, intended for a light three-horse Plow. Cuts 13 to 15 inches. Weight 160 lbs.
 Price, plain\$10 00
 Price, Wheel and Jointer 11 00

Wood Beam, One, Two and Three Chilled Plows.

No. 128. Shares on No. 128 and 129 are interchangeable. Weight 50 lbs.\$3.90
 No. 129. Right-hand only. Cuts 7 inches and turns a furrow 4½x8 inches. Weight 65 lbs. 4 10
 No. 130. Right-hand only. Cuts 7½ inches and turns a furrow 5x9 inches. Weight 70 lbs. 4 65
 No. 131. A light 2-horse Plow, but can be used with a large horse. Turns a furrow 8x11 inches. Weight 80 lbs.
 Price, plain\$5 25
 Price, Wheel and Jointer 6 50
 No. 133. A medium 2-horse Plow. Turns a furrow 7x14 inches. Weight 112 lbs.
 Price, plain\$7 00
 Price, Wheel and Jointer 8 25
 No. 134. Is a two or a light three-horse Plow. Turns a furrow 8x14 inches. Weight 125 lbs.
 Price, plain\$7 15
 Price, Wheel and Jointer 8 25
 No. 135. Is our largest three-horse Plow, especially adapted to sod-plowing and heavy work. Turns a furrow 16x20 inches. Weight 130 lbs.
 Price, plain\$7 50
 Price, Wheel and Jointer 9 00

Clipper Turf and Stubble Plows. General Purpose.

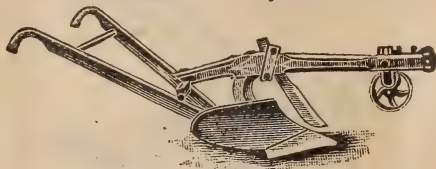
These plows are general favorites and their durable construction and excellent work bear out the statement that they are unquestionably the most popular and best all around plows for general work.

Prices.
 With Steel. With Wood Beam. Beam.

No. 32-13 inch cut, weight 100 lbs..	\$10 54	\$10 00
No. 42-14 inch cut, weight 105 lbs..	11 40	10 90
No. 52-16 inch cut, weight 115 lbs..	12 75	12 25

FIXTURES.

Wood or Steel Beam Gauge Wheels.....	\$0 90
Reversible Thin Coulter with Clasp.....	1 15
Reversible Steel Coulter with Clasp.....	1 15
Knife Coulter with Clasp.....	1 15
Fin Coulter with Bolts.....	80
Foot Coulter with Clasp.....	1 85

The Famous Vineyard Plow.

This is an excellent one-horse Plow for use in orchards and vineyards, but is no less useful as a general purpose one-horse plow. The handles are adjustable to swing away from trees, vines and shrubs. Another clever arrangement is the index beam, which allows the horse to walk either in the furrow or on the land; made right hand only. Will turn a furrow 8 to 10 inches wide by 3 to 8 inches deep. Weight, plain, 83 lbs., with wheel and coulter, 98 lbs.

Plain, without wheel and coulter, with steel mouldboard chilled, landside and point.....	\$8 75
Lead Wheel, extra.....	65
Cast Points	36
Coulter, extra	1 00
Plain, without Wheel or Coulter, with chilled Mouldboard, Landside and Point.....	7 45

CORN SHELLERS.**Diamond No. 1, One Hole Sheller.**

For hand power only. Weight, 125 lbs. Price with Fan and Feed Table, complete\$ 5 15

Diamond No. 2, One Hole Sheller.

For either hand or power. Capacity, 15 bushels per hour. Will shell popcorn or the largest ear grown with equal perfection. Has end delivery. Weight 145 lbs. Price, with Fan, Feed Table and Pulley, complete\$ 6 25

Diamond No. 3 Two Hole Sheller.

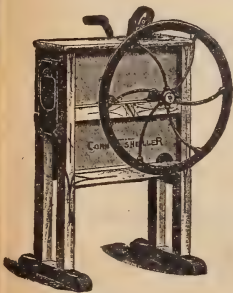
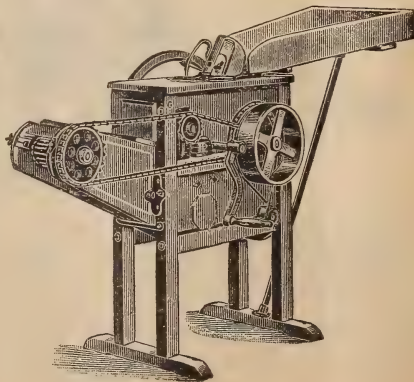
Can be used for either hand or power. Capacity is 250 to 350 bushels per day of good dry corn. One horse power is sufficient to operate the machine. Capacity depends somewhat on the speed of the sheller, and the activity of the feeding the same. It shells clean and rapidly. Has no cob carrier. Can be speeded at from 300 to 325 revolutions of the balance wheel per minute without harm to the sheller. Weight, complete with Fan, Table and Pulley, 260 lbs. Price\$12 00

Diamond No. 4, Two Horse Sheller.

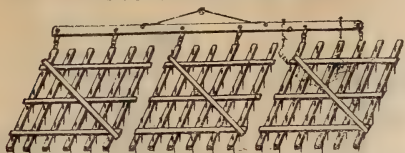
An excellent sheller for the farm, warehouse or stockman. Has no self-feed attachment. The pulley, which is 8 inches in diameter, 8 inch face, should run from 300 to 400 revolutions per minute. Will shell either very large or very small ears of corn. The height of sheller frame is 3 feet 4 inches. It has very heavy balance wheel, 27 inches in diameter. Weight of sheller complete, about 240 pounds.

Price, with fan, feed table, crank pulley and cob rake.....	\$15 90
Cob stacker, weight 35 lbs., add.....	5 20
Five foot sacking elevator, weight 100 lbs., add.....	8 45
Nine foot wagon elevator, weight 115 lbs., add.....	12 35

If sheller is to be attached by direct tumbling rod to the horse power, add \$4.50 for extra attachment. In ordering power attachment, state the number of revolutions of the tumbling rod to one round of the bull wheel on the power which is to run the sheller, so we can send the proper size sprocket wheel.



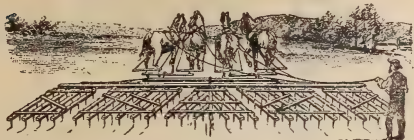
Scotch Harrows.



Made out of good timber, seasoned oak, using $\frac{5}{8} \times \frac{1}{2} \times 8$ inch Diamond cut point teeth, well riveted (not nailed), teeth mortised in and not driven in a round hole.

48 Teeth; 2 Sections;	7½ ft. cut;	wt. 130 lbs..	\$ 4 05
60 Teeth; 2 Sections;	9½ ft. cut;	wt. 160 lbs..	5 07
72 Teeth; 2 Sections;	11 ft. cut;	wt. 180 lbs..	6 08
72 Teeth; 3 Sections;	11 ft. cut;	wt. 185 lbs..	6 08
90 Teeth; 3 Sections;	14½ ft. cut;	wt. 230 lbs..	7 60
120 Teeth; 4 Sections;	20 ft. cut;	wt. 315 lbs..	10 14

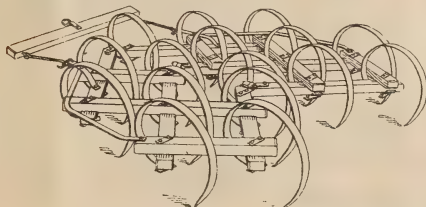
Genuine Boss Harrow.



This is the Harrow for the Northwest. The Bars are made $2 \times 2\frac{1}{2}$ in. Eveners 2×4 in. of the very best seasoned oak. Each bar is insured against splitting by using a $\frac{1}{4}$ in. oval head rivet at each tooth, riveted with a bur. The sections are independent and connected with cveners by eyehooks, so as to secure a perfect hitch, allowing the sections flexibility and vibration without permitting the teeth to track each other. Each tooth cuts its own way. Teeth $\frac{1}{2}$ inch steel, dagger or flat pointed.

Two horse,	78 teeth, cuts 13 ft.;	wt. 190 lbs..	\$ 6 10
Three horse,	102 teeth, cuts 10½ ft.;	wt. 240 lbs..	7 95
Four horse,	150 teeth, cuts 26 ft.;	wt. 360 lbs..	11 50

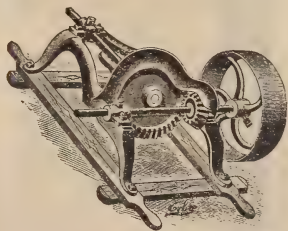
Wisconsin Spring Tooth Harrow.



This is the best Spring Tooth Harrow on the market. The frame is made of hard oak wood. Teeth made of spring steel, firmly bolted to cross-bars. The stump guard runs around the harrow outside of teeth (cut shows it inside) which is a good protection to the teeth. Fitted with the patent tooth attachment, which is the best on earth. Can never become loose. Made lined with iron plating on under side or without.

16 Teeth; Unlined;	weight 190 lbs.....	\$7 80
16 Teeth; Lined;	weight 200 lbs.....	8 67
18 Teeth; Unlined;	weight 200 lbs.....	8 77
18 Teeth; Lined;	weight 210 lbs.....	9 75
Extra Spring Harrow Teeth, each.....		20

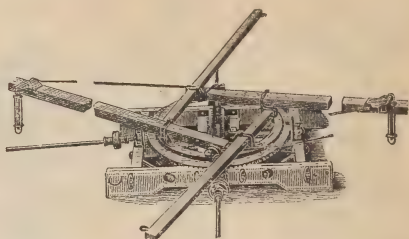
Bevel Geared Jacks.



Our Bevel Geared Jacks are composed of an iron bed frame, containing the bottom boxes for all the bearings, and are bolted to the wood frame, which make it impossible to get the bearings out of line by age or strains from staking down. They are speeded $2\frac{1}{2}$ to 1 and strong enough for eight horses.

	16 in. Pul.	18 in. Pul.	20 in. Pul.
Iron Frame Bevel Gear Jack, weight 100 lbs..	\$9 10	\$9 42	\$9 75
Wood Frame Bevel Gear Jack, weight 80 lbs..	8 00	8 32	8 65

Diamond Sweep Powers.



The Diamond Powers are built with 2 strong master wheel pinions and two heavy twin wheels, (one on either side of the bevel pinion), which equalizes the strain on every wheel in the power exactly alike. The wood frame is very strong with 10 crosspieces reinforced by heavy rods making it impossible to get the frame out of square. Shafts are all solid steel. Tumbling rod can be connected at either side of the power.

Diamond 2 Horse Power, weight 700 lbs.....	\$23 00
Diamond 4 Horse Power, weight 1000 lbs.....	31 00
Diamond 6 Horse Power, weight 1100 lbs.....	35 00
Diamond 8 Horse Power, weight 1400 lbs.....	50 00

Climax Sweep Powers.

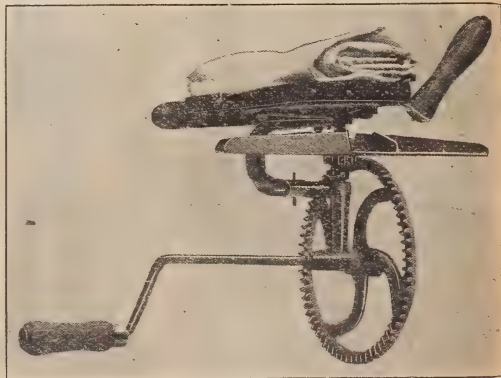
These powers are built for durability and of light draft, have right and left motion and speeded as follows:

Two Horse 10x45, 4 Horse 10x60. The bull wheels have a heavy rib on the bottom, which is not found on other makes, to strengthen them against severe strains. We use steel shafts on all gears and pinions. The frame is well braced and extra stay bolts in the cross frames to hold twin gears in close mesh with center pinion; also extra travelers to the twin gears to prevent springing of shafts or slipping of cogs. Our 4 and 8 horse power have 4 sweeps each and the 2 horse has 2 sweeps and 2 leads, all sweeps with spring hitches and draft rods with turn buckles. All Climax Powers are furnished with 18 feet of tumbling rods, one slip and two rigid couplings.

Climax 2 Horse Power, weight 850 lbs.....	\$27 50
Climax 4 Horse Power, weight 1100 lbs.....	38 00
Climax 8 Horse Power, weight 1400 lbs.....	56 00

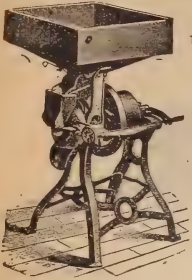
Premier Broadcast Seeder.

The Strongest, Neatest and Most Compact Hand Seed Sower Made.



Seed is fed to fan wheel through an adjustable slide in such a manner as to insure an even distribution. The slide can be closed instantly; it moves freely and is constructed so that it can never bind. Will sow at a round about as follows: Wheat, 50 feet; rye, 50 feet; clover, flax or millet, 40 feet; grass seed 24 to 36 feet. Full directions with each machine. Weight, packed, 5 lbs. Price, \$1.00; prepaid, \$1.50.

Diamond Pulley Mill.



No. 9.—Is designed to be run by belt power, can be used with two-horse power, or as much greater power as may be available. Will grind shelled corn and all kinds of

grain, but not corn in the ear. Uses burrs 6 in. in diameter. Any boy can exchange or replace burrs in 5 minutes' time. The burr shaft is held in place by an adjustable spring. Nails, nuts or pieces of iron will pass between the burrs without injuring them. The capacity of this mill is from 10 to 25 bushels per hour, according to condition of the grain and speed at which run. Height 3 ft. 3 in., hopper 19 1/2 in. square, pulley 6 1/2 in. diameter, 6 in. face, weight 185 lbs. We always ship with right-hand burrs unless left-hand are specified.

With 3 sets of burrs...\$16 90
Extra burrs, per pair weight 4 1/4 lbs. 1 20

No. 7.—This mill is the same as No. 9, only larger and of greater capacity, being fitted with 8 in. burrs. It requires from 6 to 10 horse power and will grind from 25 to 30 bushels per hour. Height 3 ft. 10 in., hopper 21 1/2 in. square; pulley 9 in. in diameter, 6 in. face, weight 250 lbs. This mill is always shipped with right-hand burrs, unless left-hand are specified.

With 3 sets of burrs...\$22 50
Extra burrs, per pair, weight 8 lbs. 1 45

The "KING" Double Grinder.

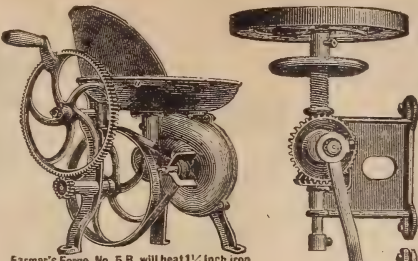


This mill has taken the lead where a mill of great capacity is required. Threshermen are using hundreds of them grinding from 40 to 60 bu. per hour, accord-

ing to power. It is furnished with an automatic feed trough and spring flexible lever at either end to prevent breakage of the burrs. It is gotten up regardless of expense, and will suit any person wanting a first-class mill that will do big work. It is made to be run by belt power only; is furnished with 8 inch pulley, 8 inch face, or 10 inch pulley, with 8 inch face. This mill is very simple, grinding at both ends at the same time, thereby utilizing every pound of power furnished. If a grinder is wanted to run with from eight to fifteen horse steam power, this is the machine that has never disappointed one of our customers. Weight 430 lbs.
With 6 pairs 8 in. burrs.\$42 00
Extra burrs, per pair... 1 25

The Cyclone Kit of Tools.

For Farmers, Stockmen, Planters and Machinists.



Farmer's Forge, No. 5 B, will heat 1 1/2 inch iron
Adze Eye Shoeing Hammer and handle. Wt. 9 oz.
Blacksmith Hammer and Handle 2 pounds, solid cast steel.
Blacksmith's Cold Chisel, 1 1/2 lbs.; solid cast steel.
Blacksmith's Drill Press, Hand Feed Weight 65 lbs.



Farrier's Knife, Wootenaholm
Blacksmith's Hot Chisel, 1 1/2 lbs. solid cast steel.
Blacksmith's Tongs, Wrought Iron, 18 inches
Farmer's Pliers, Cast Steel, 12 inch.
Screw Pile, 3 Taps, 3 Set Die, Cut 1/2, 3/4 and 1 inch.
Combination Anvil and Vice, hardened face, flint polished; weight 55 pounds.

Save Time! Save Trouble!! Save Money!!!
Complete, only \$22.50.
Packed, Weight about 160 lbs.

The Home Ironworkers' Outfit.

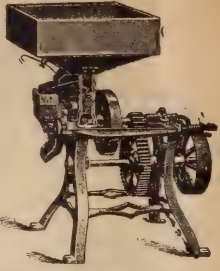
Similar to the "Cyclone," excepting that it has a Bench instead of a Post Drill. This reduces the price to \$16.00. Packed, Weight about 130 lbs.

The Acme Hand Potato Planters.



Once over the field does the work. It plants at a uniform depth directly into the moist soil. Will plant 2 acres a day.
Acme Stick Planter. Weight, 2 1/2 lbs. Price, 75 cts.; 3 for \$2.00.
Acme Tubular Planter. Weight, 5 lbs. Price, \$1.25; 3 for \$3.25.

Diamond Geared Mill.

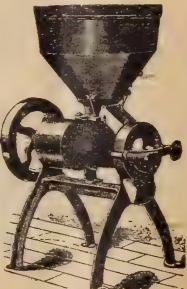


No. 10.—This mill is identical with No. 9, except being a geared mill and having the shaft squared at one end for direct tumbling-rod connection. Weight 225 lbs. Always shipped with left-hand burrs unless right-hand are specified. With 3 sets of burrs...\$19 50
Extra burrs, per pair weight 4 1/4 lbs. 1 20

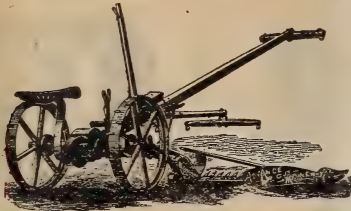
No. 8.—This mill is identical with No. 10, except that it is larger and has a greater capacity, being the same size as No. 7. It is made with gearing for direct tumbling-rod attachment. It is also furnished with a pulley 12 in. in diameter by 3 in. face to belt from, for the purpose of running a corn sheller, feed cutter, etc. This makes an excellent mill for those who have four horse to eight horse power. The burrs are 8 in. in diameter, same as No. 7, made both right and left, but unless right-hand are specified, we always ship fitted with left-hand burrs. Capacity, 20 to 30 bushels per hour. Weight 275 lbs. With 3 sets of burrs...\$24 00
Extra burrs, per pair, weight 8 lbs. 1 45
Note.—In ordering repairs for these mills give letters or figures on old parts to be duplicated, and we will fill your order correctly.

Diamond Corn and Cob Mill

The Diamond Corn and Cob Mill has a series of crushers in the heavy iron hopper. Under the crusher is a reducing process which grinds the corn and cobs to a uniform



size before being delivered to the grinding burrs, thus enabling to grind corn and cobs very fine, and at the same time grind all kinds of grain, such as oats, barley, wheat and other small grain. It is constructed entirely of iron, and steel, has a heavy balance wheel, with 10 inch driving pulley with 8 inch face. The capacity depends largely on the amount of power furnished and the condition of the grain. With ten to fifteen horse power this mill will grind in good shape from 35 to 50 bushels per hour. Height 4 feet 4 inches, width of hopper 23 inches, weight 450 lbs., diameter of burrs 9 inches. Price\$41 90
Extra burrs, weight per set 10 lbs. 1 50

Advance Iron Mower.

The frame is cast in one piece. The gears are the fewest in number possible, and are completely covered. The pitman is attached to the knife by a ball and socket, and provision for taking up all wear of the knife is made. Steel Guard Plates are used, which can be ground without being removed from the guards.

Price, $4\frac{1}{2}$ foot cut; weight 650 lbs.\$37 50

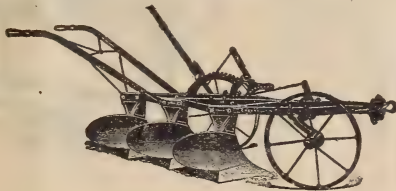
The Advance Dump Hay Rake

The "Advance" Balance Dump Rake, made with twenty teeth, $4\frac{3}{4}$ inches apart. It will meet the requirements of the farmer, being perfect lock lever, which can be operated with great ease, while the teeth cannot rise except when required to dump. Weight 265 lbs.

Price, 20 teeth, 8 foot, wood wheels.\$13 00

Price, 24 teeth, 10 foot, wood wheels. 15 50

Steel wheels in place of wood wheels, add. 1 50

Favorite Gang Plow.

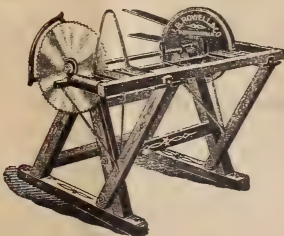
Adapted to all kinds of shallow plowing. Frame and wheels are steel, not cast iron. One lever only adjusts it perfectly, instantly and easily. The moldboards are so shaped as to give an exceptionally light draft. It plows sod or stubble, sod from two to four inches deep and stubble from three to six inches deep. Turns sand and loose soil uphill where others fail. Plows under and covers all kinds of grain. Each bottom cuts 9 inches, making a total cut of 27 inches. Weight 300 lbs.

With Cast Moldboards and Cast Shares.\$17 50

With Soft Center Steel Moldboards and Chilled Shares. 19 90

With Soft Center Steel Moldboards and Cast Steel Shares. 20 35

With all Steel Moldboards and Steel Shares. 26 20

Swing Table Wood Saws.

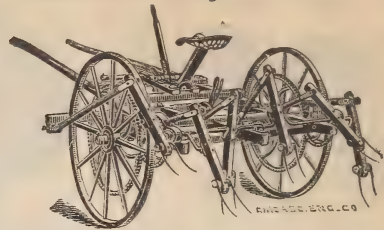
This saw has a tilting table perfectly balanced. The saw is protected, which prevents injury to the operator. There is 3 $\frac{1}{2}$ feet of space between saw and balance wheel, convenient to saw wood 5 $\frac{1}{2}$ feet long into four cuts. For pole sawing an extra frame attachment is provided to support the table. Shipped right hand unless otherwise ordered; by right hand

we mean saw to right of operator doing the feeding. Weight 325 lbs. complete

With Saw Blade.\$24 50

Without Saw Blade. 17 55

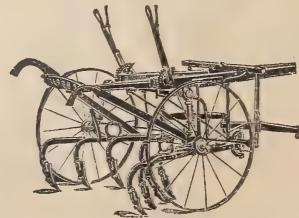
For Pole Attachment, add. 2 00

Advance Hay Tedder.

The Advance has two levers—one for raising and lowering the frame and the other for throwing in and out of gear. Both can be readily used by the driver from his seat without dismounting. The frame is so constructed as to float or rebound when forks strike the ground or any hard substance. Furnished with combined pole and shafts, for one or two horses.

6 forks, 8 foot swath, 590 lbs.\$24 45

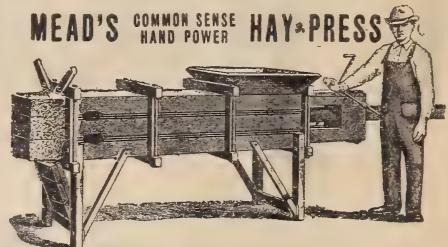
8-forks, 10 foot swath, 725 lbs. 26 75

Combined Riding and Walking Cultivator.

Will cultivate 2 rows Beans at once if desired, and will cultivate Potatoes planted 36 inches; shovels will hill nicely. All steel. Weight 375 lbs.

Price, with 8 teeth.\$24 50

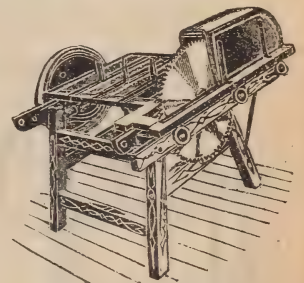
We furnish two extra shields and extra long wheel spindles, for Bean cultivation, when ordered, at \$3.75 extra.

MEAD'S COMMON SENSE HAND POWER HAY-PRESS

This machine will bale anything that permits of baling. Two boys can bale three tons per day easily and more if the stuff that is to be baled is delivered to the machine. It can be operated in 3x12 feet of floor space. Makes a bale 14x18 inches square and any length up to 48 inches. It is strongly made and with ordinary care will last a life-time. Weight of Press 480 lbs. Price \$24.00 f. o. b. cars factory.

Sliding Table Wood Saws.

The frame is built of seasoned wood firmly put together with wrought bolts. We can furnish this machine with balance wheel below table for sawing long poles by using an extra shaft, two shaft hangers and pulley running with a belt to the main saw shaft.



With Saw Blade, complete.\$24 50

Without Saw Blade. 17 55

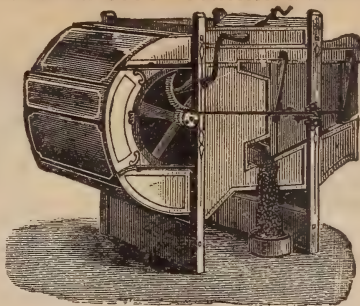
With Balance Wheel below Table, add to above price 4 75

CLIPPER CLEANER.

This machine cleans all kinds of seeds and grain to the highest possible grade. It has the best of zinc sieves, seven in number, requires no attachments for cleaning wheat, oats, barley, corn, beans, rice buckwheat, flax, clover, millet, timothy and garden seeds.

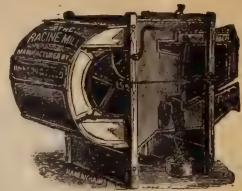
It has spreading board, end shake, and the vertical blast, which are found in the Clipper and no other, which makes them the leading and standard cleaner of the United States and Canada. Wt. 180 lbs.

Price, No. 1.....\$18 00
Price, No. 2..... 25 00

"CREAM CITY" FANNING MILLS.

The "Cream City" is an excellent chaffer, having plenty of wind and shake. Having two shoes it carries more screens than any other Mill in the market. It will separate oats and all small seeds, such as pigeon grass, wild buckwheat, cockle, cheat, and other wild seeds, from wheat at one operation. And the good and large seed can be separated from the small and the poor. It is a perfect cleaner of both clover and timothy. With each Mill we furnish 1 wheat hurdler, 1 wheat screen and grader, 1 barley sieve, 1 oat sieve, 1 rye sieve, 1 flax sieve, 1 clover sieve and 1 timothy sieve. Shipped knocked down unless otherwise ordered.

Price, No. 1 Mill, Sieves 24 in., Weight 150 lbs\$13 25
Price, No. 2 Mill, Sieves 30 in., Weight 165 lbs 17 25

EXCELSIOR MILL.

The regular outfit, known as "Commercial," will be sent with each mill, unless otherwise specified, and is as follows:

1 wheat hurdle or gang, with zinc sieve on top; 1 wheat screen; 1 wheat grader; 1 oat sieve; 1 barley sieve; 1 timothy sieve and 1 clover sieve.

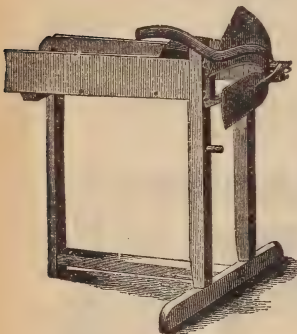
Price, No. 1 Mill, Sieves, 24 in., wt. 140 lbs....\$10 90
Price, No. 2 Mill, Sieves, 30 in., wt. 155 lbs.... 15 00

Excelsior Junior.

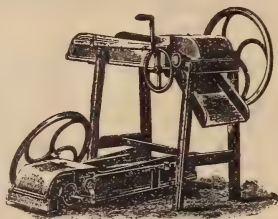
Similar to the foregoing, only gearing is on the outside.

Price only\$9 25

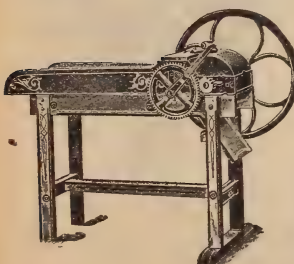
Clover and Timothy Sieves, extra, each45 cts.

**Lever Cutter.**

For cutting feed for one horse or cow, we recommend our Lever Cutter. It is made with an adjustable gauge to regulate the length of cut. We now furnish an improved pattern of cutter. Weight 55 lbs. Price, \$2.75.

**The K. D. Cutter.**

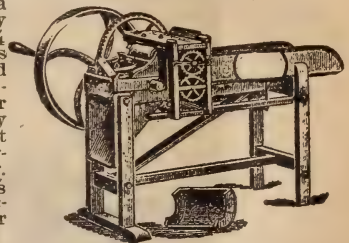
It has one 11-inch knife, an automatic feed, and can be changed in a moment to cut various lengths. Weight 175 lbs. Price, \$11.00.

The Clipper Cutter.

This cutter is not intended to do the work of the largest horse-power cutter. When heavy corn-stalks are to be cut we recommend the Cummings No. 1 or 2, as stronger and better adapted for heavy work. It has one spiral knife geared to make four cuts to one turn of the crank. Length of knife, 10 in. Weight, 130 lbs\$9 39
Extra knives each, 1 05

Cummings Cutter No. 1.

This cutter is a hand machine only and has three 8 3/4 in. knives. It has the upward cut, and the rocking feed roller, and the power is applied directly to the knife shaft without any intermediate gearing. Length of cut 3/8 and 7/8 in. Capacity, 400 lbs. per hour.



Weight, 200 lbs\$13 90

Cummings Cutter No. 2.

This is the largest hand machine, and is not recommended if much cutting is to be done, as it requires lots of muscle, which makes it hard work. If you do not have power, but plenty of strong boys, this machine answers nicely. Length of cut 3/8 and 7/8 in. 4 knives, 10 in. long. Capacity, from 400 to 800 lbs. per hour.

Weight, 300 lbs\$16 00

Cummings Cutter No. 2 1/2.

This cutter has four 10-in. knives, is intended for power, but can be run by hand. Length of cut, 3/8 and 7/8 in. Power required, two horse. Capacity, about 2,000 lbs. per hour of dry feed. Speed, 400 to 600 revolutions per minute.

Weight, 300 lbs\$19 75
Crusher Attachment. Weight, 180 lbs. Extra.. 10 95
Shredder Attachment. Weight, 150 lbs. Extra.. 13 50

Improved Cummings Cutter No. 3.

The No. 3 cutter is intended for power only. It is made on the same lines as our smaller machines, being larger, heavier, and having capacity great enough to feed forty to sixty head of stock. Equipped with three 12-in. knives; cuts four lengths—1/4, 1/2, 3/4 and 1 in.; size of pulley, 14 in.; diameter, 5 1/2 in. face; speed 400 to 600 revolutions; power required, two-horse; capacity, 3,000 lbs. dry feed per hour.

Weight, 500 lbs\$35 90
Crusher Attachment. Weight, 200 lbs. Extra.. 14 50
Shredder Attachment. Weight, 200 lbs. Extra.. 19 00
12 Foot Carrier. Weight, 300 lbs. Extra..... 15 15
(If longer Carrier is wanted add 95c per foot.)

SMITH'S FORCE SPRINKLER.

A handy and cheap bucket sprayer. It is made of the best quality of tin, well lacquered. A good sprayer for the money.

Has four attachments.

No. 1. For extinguishing fires, washing high windows, etc. No. 2. For washing carriages, low windows, etc. No. 3. For spraying. No. 4. For showering. Wt. packed, 3 lbs.

Price\$0 90

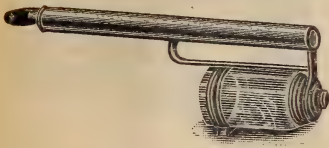
THE CANNON SPRAYER.



A new handy and simple sprayer. Just the thing to apply liquid insecticides.

No. 4 All tin, 35 cts.; by mail, 50 cts.
No. 5. Brass tank, 55 cts; by mail, 70 cts.

THE PARK'S SPRAYER.



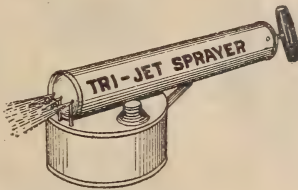
A simple and inexpensive device consisting of a heavy tin tube air pump and a glass jar as a receptacle for the spraying compound. The article inside of jar is a mixer or agitator for the liquid.

Price, 75 cts; prepaid,.....\$1 25

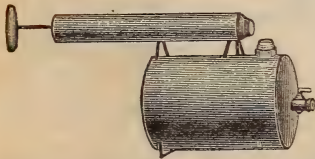
NEW ERA TRI-JET SPRAYER.

This sprayer embodies the principle of the ordinary atomizer and is new only in the application of same to a new use. Throws the finest kind of a mist spray. Just the thing for spraying disinfectants.

Price—Galvanized Reservoir, 45 cts.; prepaid 75 cts. Brass Reservoir, 75 cts.; prepaid, \$1.00.



THE BLIZZARD SPRAYER.



Complete with special stop cock and nozzle. The cheapest compressed air sprayer on the market. After filling $\frac{3}{4}$ full and pumping in about 10 strokes of air, a continuous mist-like spray is thrown which will last many

minutes. The "Blizzard" will spray as fast as you can walk, saving a large amount of time and labor. By removing the 2 pieces of nozzle, a fine spray is thrown direct from the stop cock, which can be varied by a slight turn of the key to a coarse spray 12 to 15 feet high, or a stream 15 to 20 feet high. Capacity, 1 Gallon. Extremely light, a lady can operate with it.

No. 30. Galvanized Iron. Price.....\$1 25
No. 35. Brass Tank. Price.....1 40

HILL'S KNAPSACK SPRAYER.

Ten acres a day, hills or drills. Two rows at a time as fast as a man can walk, it covers each plant with a finely divided spray of any liquid insecticide or disinfectant. No pumping; the arms hang naturally at the side; the wide thin tank brings the weight close to the operator's back. The tank is best galvanized iron and the spray nozzles all brass. Wt. 7 lbs. Price.....\$3 25



THE AUTO-SPRAY.

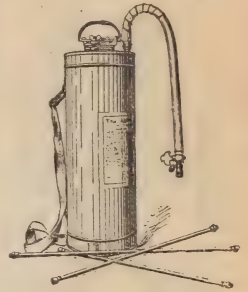
A few strokes of plunger in air chamber will compress enough air to discharge the entire contents and make a continuous spray for 9 minutes. This means that the "Auto-Spray" can be charged in 15 seconds, when it will work uninterruptedly long enough to spray a quarter-acre of potatoes.

"Auto-Spray" is the most suitable machine for small fruits, potatoes, and for use as a Fire Extinguisher. It may be also used in spraying small orchards, and we know of one case where it was used to spray 1,200 trees in one season.

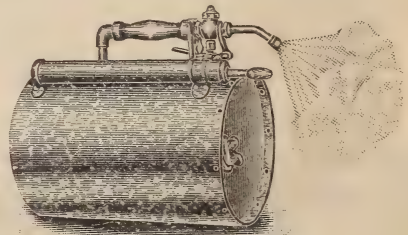
"Auto-Spray" is made in both galvanized steel and brass. We also furnish extension pipes, in 2 feet lengths, made of either material; and by the aid of 3 of these pipes, and our new spraying attachment, a spray can be thrown to the height of 27 feet. Weight packed, 12 lbs. Galvanized Steel Tank, \$4.50. Prepaid.....\$5 00
Brass Tank, \$6.00. Prepaid.....6 50

EXTENSION RODS.

Two-foot Galvanized Steel, each \$0.30. Brass, each, 35
Extra Elbow Correction, each.....35



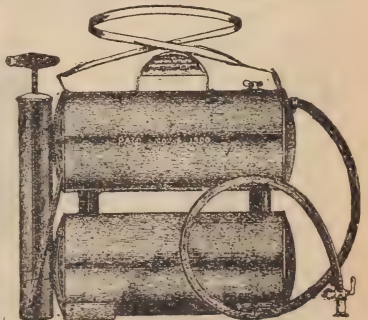
THE LOWELL SPRAYER.



A compressed air sprayer. Works very easy and rapid. The action of the air keeps the solution thoroughly stirred. It has a funnel shaped head, making it handy for filling. The amount of spray is easily governed by simply pressing the thumb valve with a quick or slow motion. The spray can be thrown in any direction by turning the spray crook as desired. One filling will spray 400 hills of potatoes. With the 4-foot hose attachment you can easily spray into the tops of the highest fruit trees. It is thoroughly riveted and will stand a pressure of 50 pounds. All working parts made of brass. Fully guaranteed. Weight packed, 12 lbs. Galvanized Iron, \$4.50. With fruit tree attachment, \$5 00
Brass Tank, \$5.50. With fruit tree attachment.....6 00
Will send either prepaid east of the Mississippi for 50 cents extra.

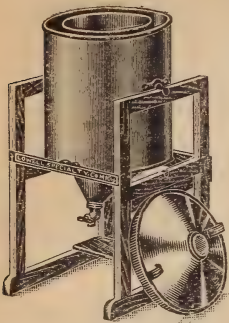
THE UTICA HIGH PRESSURE SPRAYER.

A new departure in compressed air sprayers. Made with a double cylinder, of galvanized iron (is also made of copper), hence is capable of a very high pressure. It will throw a fine stream over and into the average fruit tree. Once charged it works continuously until material is used up. On account of its construction it is convenient to carry. It is built strong, yet light, weighing but 7 pounds. By using an extra hose, the large body of fine spray can be carried with full force into the top of the highest tree, by the use of a long stick, wired on the end to raise the nozzle where wanted. Tested before shipped. Length of hose 30 inches.



No. 15. Steel, each, \$3.65. By express prepaid....\$4 15
No. 40. Galvanized Iron, each, \$4.25. By express, prepaid4 75
No. 20. Copper, each, \$6.50. By express, prepaid.. 7 00
Extra hose, per foot, 15cts. Coupling for extra hose each 25 cts., postpaid.

THE "PURITAN" SEPARATOR.



The Puritan Separator, holds ten gallons of milk and ten gallons of water. As will be seen by the cut, it is a cylinder within a cylinder and both in an upright position. The inner tank is made of extra heavy coated charcoal tin of the finest finish and lustre. The plates are made only from the finest quality of soft steel, coated with pure refined Australian tin. The outside tank of galvanized iron. The inner tank has a funnel shaped bottom terminating in the faucet as shown in cut. The faucet is removable, making it easily cleaned and perfectly sanitary. There is a faucet on the side of the outside tank to draw off the water.

The tank is swung on a solid oak frame, high enough to permit an ordinary pail to be placed underneath the faucet. This swinging device enables the can to be placed in most any position for cleaning and airing, without any effect whatever.

The cover extends over the outside tank and high above the milk tank. It is a conical dome in shape and is fitted with a strainer so that by turning the cover upside down, the milk can be strained while pouring into the can. This strainer disk is also removable for cleaning purposes. The slant of the cover is steep, and all dripping from steam or gases arising from the cooling of the warm milk, and all precipitations upon the inside of the cover drips over the edge of the milk tank and into the waste pipe as it should.

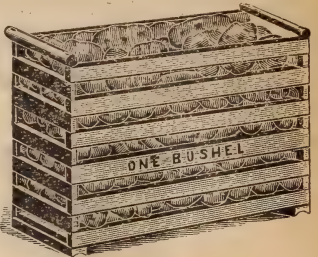
This Separator does the work of raising cream in about three hours without any labor on the part of the operator. As long as you get your separator cleaned and ready for the next milking, that is absolutely all that the work requires. This

Separator works on the theory of raising the cream by bringing the milk to a low temperature as rapidly as possible, or in short, chilling it. This extracts the cream and leaves nothing of butter fat in the remaining skimmed milk. Weight 31 lbs., Price, \$7.00.

FOLDING FRUIT AND VEGETABLE GRATE.

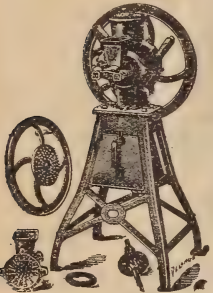
The slats have rounded corners, are 5/8 of an in. hardwood, made with holes bored in each end through which is passed a 12-gauge steel wire securely fastened through hardwood pieces at top and bottom. The top pieces are 1/2 in. round for handles, and the bottom piece is square with the underside hollowed to fit the handle, thus preventing their sliding and damaging the contents when one is piled upon the other. Just the Thing for the Gardener and Farmer.

No.	Capacity.	Six.	Dozen.	No.	Capacity.	Six.	Dozen.
0	1/4 bu.	\$1.40	\$2.65	2	3/4 bu.	\$1.60	\$3.00
1	1/2 bu.	1.50	2.75	3	1 bu.	1.75	3.35



TRIPLEX MILL.

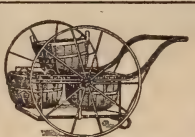
Grinding Mill, Corn Sheller and Dry Bone Grinder.



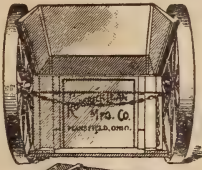
The sheller will do its work as well as a high priced sheller and the dry bone mill does equally good service in grinding dry, not green bone. The grinding burrs are made of white iron by a special process which makes them harder than steel. The bone crushers are also made of the same hard iron. Either can be replaced when worn out. Capacity as sheller about 1 bu. in 5 minutes, as a mill about 20 lbs. per hour, depending upon the condition of grain. Not mounted on stand, wt. 65 lbs.\$6.15

Mounted as shown, wt. 115 lbs. 8.90
Extra burrs, per pair 68

Butler Steel Hand Cart.



For the business man in every line this cart is indispensable. The platform hangs low; rides level.



Sides and ends 12 inches high, extend upward and outward from the regular cart box, making a very useful rig for handling leaves, trash, grass, manure, etc. Capacity 2 1/2 cubic feet, or about 14 bushels.



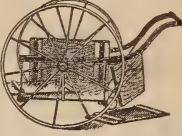
This can be used continuously around the farm, garden or house. Box 36 in. long, 35 in. wide, 15 in. deep inside. Capacity 11 cubic feet.



Will hold four milk cans and is in great demand in the creamery and dairy.

FILLS the want for a 2-wheel hand truck better than all others combined. It is not merely suitable for one special purpose but for all.

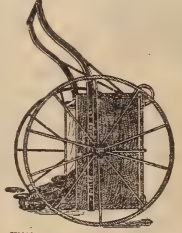
If you have use for a warehouse truck, the BUTLER fills that want. If you want a barrel cart, you have it in the BUTLER. While as a box cart for handling leaves, cut grass, trash, dirt, ashes, small grain, etc., it is your best friend. Merchants, printers, bakers, confectioners and hotels find it a great convenience for handling or delivering barrels, kegs, boxes, packages, etc. There is not a day around the farm, dairy, creamery, yard, garden or business house that it will not be in demand. It is light in weight, has great strength, and excels in general utility all other carts, and if numbers sold is any criterion of merit, this is unquestionably the cart of the future.



The side and end boards can be quickly detached. Easily loaded as a wheelbarrow.



Tips forward and picks up a barrel or heavy article same as a warehouse truck. No heavy lifting.



Will turn clear over and dump load without shoveling.

Wheels—Steel, 36 inches high and with removable boxings, easily and cheaply replaced in case of wear. **Tires**—Regular, 1 1/4 inch, 3-inch as shown on No. 3 and rubber tires at extra cost. **Width**—Between wheels, 36 inches; from out to out of hub, 42 inch. **Axle** and all frame parts Steel. Will easily sustain a load of 500 lbs. **Platform**—Hard Wood, 28x32 inches. **Side Boards**—Also Hard Wood, instantly removable, leaving Cart in shape for handling barrels, boxes, milk cans, etc. **Painting**—Body blue, neatly striped; wheels bright carmine. No. 1. Has only the plain Platform; weight 95 lbs. Price, \$7.50. No. 2. Same as No. 1, but has side boards, 25 inches high, which are readily removed; weight 125 lbs. Price, \$8.50. No. 3. Same as No. 2, with flaring hopper, sides and ends extending 12 inches above the box on No. 2; weight 155 lbs. \$10.00. **Extra 3-inch Tires**. Can furnish Wheels with 3-inch Tires at an additional cost of \$1.50. Weight 30 lbs. more.

DUPLEX MILL.

A Combined Grist Mill and Corn Sheller.

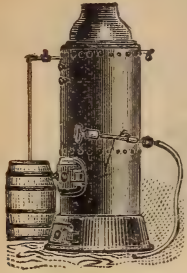


Shells corn and grinds all kinds of grain.

Where a corn sheller and a family grist mill are both required it is much better to have them combined in one machine. The corn sheller is better because the shelled corn can not scatter and the balance wheel makes it more efficient. These mills are made entirely of iron and finely painted. The burrs are removable, and when worn out they can be replaced at a cost of 68 cts. Will not make flour. Not mounted on stand, wt. 60 lbs.\$5.00

Mounted as shown, wt. 109 lbs. 7.25
Extra burrs, per pair 68

Steam Feed Cookers.

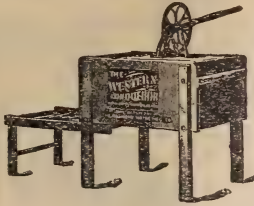


Kalamazoo No. 1, Wt. 360 lbs.\$19.90

Kalamazoo No. 2, Wt. 430 lbs. 21.10

Kalamazoo No. 3, Wt. 450 lbs. 31.10

Western Conqueror Wash Machine.

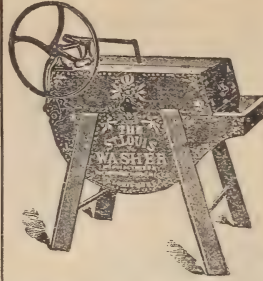


So well known all over the country that description is unnecessary.

No. 2—17 $\frac{1}{4}$ x23 $\frac{1}{8}$ x10 $\frac{1}{2}$. Wt. 65 lbs.\$2.75

No. 3—19 $\frac{1}{2}$ x25 $\frac{1}{2}$ x11 $\frac{1}{2}$. Wt. 70 lbs. 3.35

St. Louis Wash Machine.



The best machine in the market today. Will clean quicker, easier and more thorough than any other machine. Wt. 90 lbs. Price only\$6.00

Peerless Food Cooker.



Has no equal for cooking all kinds of feed for Stock, Butcher's use, Sugar making, Soap boiling, etc.

30 Gallons\$ 8.50
40 Gallons 10.00
50 Gallons 11.50

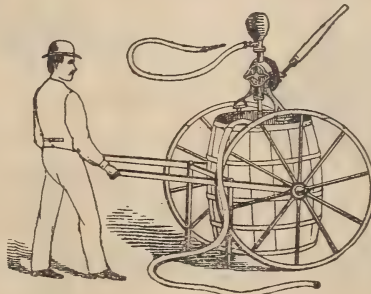
Coal Grate for any of the above sizes \$3.25 extra.

Barrel Carts.



Wood Frame, Wt. 55 lbs., without barrel \$3.35
Steel Frame, Wt. 55 lbs., without barrel 3.75

Barrel Cart with Lever Clock Pump.



For spraying orchards, a Spray Pump that can be placed on any ordinary oil or whiskey barrel makes a convenient and cheap outfit. The apparatus may then be placed on a wagon or attached to our Barrel Cart, as shown in the cut. In placing it on a wagon, the greatest economy of time may be obtained when two persons are engaged in the spraying, one to drive and the other to do the spraying. By using the Barrel Cart only one person is necessary.

Price, Pump, with 9 feet Suction Hose and 3 feet Discharge Hose and Nozzle; weight 70 lbs.\$15.50

Barrel Cart, without Barrel (a vinegar or oil barrel will do); weight 55 lbs. 3.75

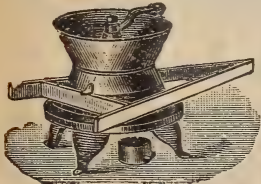
Complete, only 19.25

Wagon Carts.



36 in. Metal Wheels, Box 25x38 in., 10 in. deep. Drop end gate. Axle 1 in. round steel. Wt. 85 lbs.\$5.25

Corn and Cob Mill. New Osage Junior.



2-Horse Sweep. Is designed to grind corn, cobs and shelled corn. Capacity 6 to 12 bu. per hour, depending on how fast the horses walk and condition of the grain. Weight 525 lbs.\$16.90
Extra Grinding Rings, per pair 4.00

Star Root Cutter.



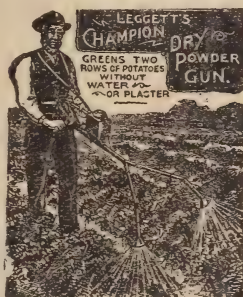
This Cutter has steel knives. It is light running, cheap and durable. Balance wheel weighs 47 lbs. Will cut all kinds of roots fine enough for any kind of stock; it will not clog. Cuts better and finer than any other Cutter. Wt. 75 lbs., only\$7.50

Horse Radish and Vegetable Grater.



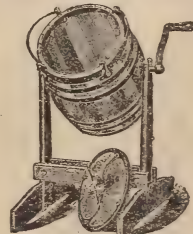
40 inches high, base 16 $\frac{1}{2}$ x18 in., depth 20 inches, size of cutter 6 $\frac{1}{2}$ in., weight, 75 lbs.
Price, mounted.\$8.25
Price, not mounted. 6.75

Dry Powder Gun.



The best Gun on the market to-day. Saves time, labor and money. Weight about 6 lbs. Each Gun is furnished with 4, 20 in. Extension Tubes, 6 nozzles, 1 Oil Can, Strap and Loop, Frontpiece and Belt for waist. Reservoir holds 4 lbs. Paris Green. Weight boxed 19 lbs. Price.\$6.95

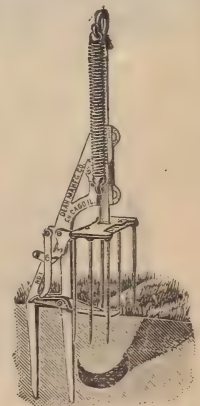
Acme Bail Churn.



The "Acme" is the best barrel churn made. Has been on the market many years. Thousands in use. Made from the best seasoned hardwood.

Size.	Capacity.	Wt.	Price.
No. 0	5 gals.	30 lbs.	\$3.00
No. 1	9 gals.	34 lbs.	3.15
No. 2	15 gals.	40 lbs.	3.55
No. 3	20 gals.	45 lbs.	3.90
No. 4	25 gals.	60 lbs.	4.50
No. 5	35 gals.	75 lbs.	6.00
No. 6	60 gals.	110 lbs.	10.00
Pulleys 12 to 14 in.			.75
D'll Pulley fast & l'se			1.25

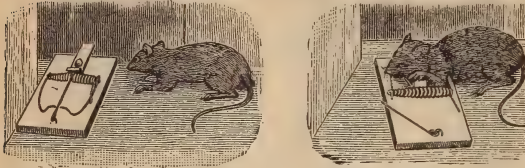
Olmsted Mole Trap.



Directions for setting are cast on the frame. A tag describing habits of mole accompanies each trap. Each, \$1.50; 3 for \$3.75.

“OUT O’ SIGHT” TRAPS.

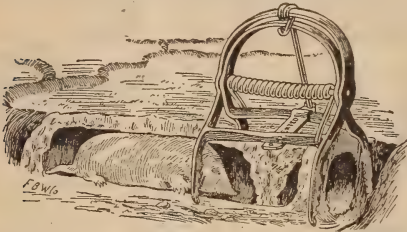
Traps are not Ornaments, they are absolute necessities.
MOUSE AND RAT TRAPS.



Mice in the Pantry.

The “Out O’ Sight” Trap is sure to catch ‘em. No bait required. Will catch two mice to one of any other trap made in a given length of time. Mouse trap sent postpaid, 10c. Rat trap sent postpaid, 25c. Full instructions with each trap.

THE “OUT O’ SIGHT” MOLETRAP.



The best Mole Trap every offered, to which thousands will testify. It has only to be tried to be appreciated. Trap sent for \$1.25 postpaid. Full instructions with each trap.

FAMILY COBBLER, No. 1.

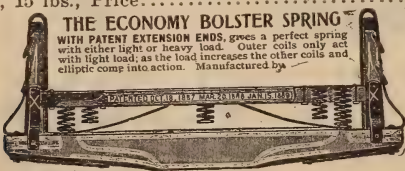


Consisting of 44 first-class Tools and Materials shown in cut, viz.: 1 Iron Last for Men's Work, 1 Iron Last for Boys' Work, 1 Iron Last for Women's Work, 1 Iron Last for Children's Work, 1 Iron Stand for Lasts, 1 Shoehammer, 1 Shoeknife, 1 Peg Awl Handle, 1 Peg Awl, 1 Wrench for Peg Awl Handle, 1 Sewing Awl Handle, 1 Sewing Awl, 1 Stabbing Awl Handle, 1 Stabbing Awl, 1 Bottle Leather Cement, 1 Bottle Rubber Cement, 1 Bunch Bristles, 1 Ball Shoe Thread, 1 Ball Shoe Wax, 1 pkg. Clinch Nails 4-8 in., 1 pkg. Clinch Nails 5/8 in., 1 pkg. Clinch Nails 6-8 in., 1

pkg. Heel Nails, 4 pairs Heel Plates, assorted sizes, 6 Harness Needles, 1 Harness and Saw Clamp, 1 box Slotted Rivets, assorted sizes, 1 Rivet Holder for same, 1 Harness and Belt Punch, 1 Soldering Iron ready for use, 1 Handle for same, 1 Bar Solder, 1 Bar Resin, 1 Bottle Soldering Fluid, 1 Copy Directions for Half Soling, etc., 1 Copy Directions for Soldering. Weight, 15 lbs., Price.....\$1 35

THE ECONOMY BOLSTER SPRING

WITH PATENT EXTENSION ENDS, gives a perfect spring with either light or heavy load. Outer coils only act with light load; as the load increases the other coils and elliptic come into action. Manufactured by



Capacity.	Weight.		Price.
No. 0-1,500 lbs.	27 lbs.	per set,	\$3 25
No. 1-2,500 lbs.	32 lbs.	per set,	4 10
No. 2-3,000 lbs.	36 lbs.	per set,	4 75
No. 3-4,000 lbs.	38 lbs.	per set,	5 00
No. 4-5,000 lbs.	40 lbs.	per set,	5 50
No. 5-6,000 lbs.	44 lbs.	per set,	6 50
No. 6-8,000 lbs.	48 lbs.	per set,	7 25

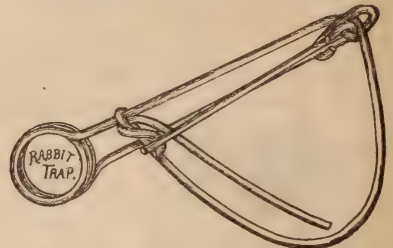
In ordering, be careful to state the width between stakes of wagon.

COPHER TRAP.



New Principle. Sure catch. Trap sent postpaid for 25c.

“STOP THIEF” TRAP.



Will kill at once and save the skin and fur.

- No. 1. “Stop Thief” Traps (for catching rats and squirrels), postpaid 20c; not prepaid, per doz., \$1.50.
- No. 2. “Stop Thief” Traps (for catching mink and marten), postpaid 30c; not prepaid, per doz., \$2.00.
- No. 3. “Stop Thief” Traps (for catching skunks, raccoons, etc.), postpaid 40c; not prepaid, per doz., \$2.60.

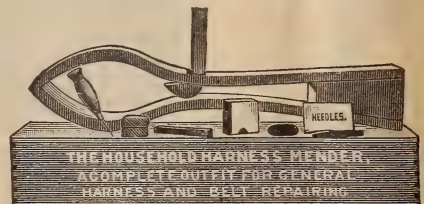
FAMILY COBBLER, No. 2.

Consisting of 33 First-Class Tools and Materials shown in cut, viz.: 1 Iron Last for Men's Work, 1 Iron Last for Boys' Work, 1 Iron Last for Women's Work, 1 Iron Last for Children's Work, 1 Iron Stand for Lasts, 1 Shoehammer, 1 Shoeknife, 1 Peg Awl Handle, 1 Peg Awl, 1 Wrench for Peg Awl Handle, 1 Sewing Awl Handle, 1 Sewing Awl, 1 Stabbing Awl Handle, 1 Stabbing Awl, 1 Bottle Leather Cement, 1 Bottle Rubber Cement, 1 Bunch Bristles, 1 Ball Shoe Thread, 1 Ball Shoe Wax, 1 pkg. Clinch Nails 4-8 in., 1 pkg. Clinch Nails 5/8 in., 1 pkg. Clinch Nails 6-8 in., 1



Weight, 12 lbs., Price.....\$1 00

HARNESS MENDER.



Saves time, trouble and money. Contains:

- 1 Wood Lever Sewing Clamp.
- 1 Ball Shoe Thread.
- 1 Sewing Awl Haft.
- 1 Harness Awl for same.
- 1 Saddler's Round Punch.
- 1 Steel Rivet Set for same.
- 1 Ball Shoe Wax.
- 1 Paper Harness Needles.
- 1 Package Rivets and Burrs.

All packed in a strong box, weight 10 lbs.....\$1 20

LADIES' FLORAL SET.



Price, all four tools.....\$0 50 By mail, \$0 75
Garden Troweleach, 10 By mail, 16
Garden Forkeach, 10 By mail, 16

Pruning Saw.



Price.....each, \$0 85 By mail, \$1 10

Tree Pruner.



6 ft. Pole, \$0 85
8 ft. Pole, 1 00
10 ft. Pole, 1 10

Pruning Shears.



Price, only\$0 50
Postpaid 75

Columbus Whetstone.



This stone has been awarded First Prize at all the leading International Fairs. It is made of Aluminum Clay, and will sharpen Scythes and all other Tools as well as Kitchen Cutlery.

Price, postpaid, 25 cts.; three for 60 cts.

Eureka Corn Knife.



A Corn Cutter forged under the hammer from a solid piece of steel. Hardened in oil and tempered in metal bath. Price, each, 35c; 3 for.....\$1 00

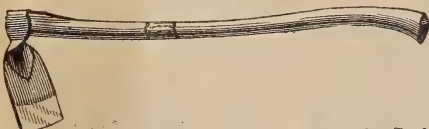
Asparagus Knife.



Made of the best material. Will not break and warranted to last. Each, 30c; 3 for.....\$0 75

The "Bateman" Hoe.

Beveled Edges, Oil Tempered.



Light and strong and "Just the Thing" for purposes almost innumerable. One or more should be found on every farm.

Three sizes: No. 1, 5 1/4 inches, \$1.00; 3 for \$2.75; No. 2, 6 1/4 inches, \$1.10; 3 for \$3.00; No. 3, 8 inches, \$1.25; 3 for\$3 25

Tomato Transplanting Hoe.



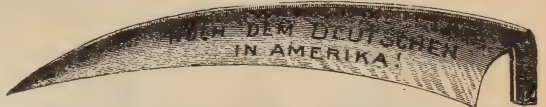
A very convenient Hoe for transplanting tomatoes or other large plants. Made of the best material, warranted to last. Each, 55c; 3 for \$1.50.

EXCELSIOR HAND WEEDER.



Price.....each, \$0 10 By mail, \$0 15

Imported Hammered Scythes.



Known by those who have farmed it in the "Old Country."

No. 8 -30 inches.....Price, \$1 25, 3 for \$3 50
No. 8 1/2 -32 inches.....Price, 1 35, 3 for 3 80
No. 9 -34 inches.....Price, 1 50; 3 for 4 25

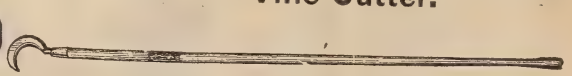
Corn Planter.



Racine Planter. With Pumpkin Seed Attachment. Weight 7 lbs. Each, \$1.25; 3 for \$3.50.

Acme Planter. Weight 4 lbs. Each, 75c; 3 for \$2.00

Vine Cutter.



For cutting vines of sweet potatoes. Saves the back. Price, each, 55c; 3 for.....\$1 50

Garden Dibble.



This Dibble is not the cheap kind usually sold. Point is of the best tempered steel. Each, 35c; 3 for \$1.00.

Transplanting Trowel.

Useful to transplant sweet potatoes, cabbage, etc., etc. Each, 35c; 3 for \$1.00.



Garden Line Reel.



Useful to every Trucker Gardener or Farmer. Small, 50c; large, 75c.

Garden Line.

100 feet, braided, 65c.



No. 710, Revolving Grater.

For grating Coconut, Horse-radish, Carrots, etc.
Price only\$0.45
By mail80

No. 36, Raisin and Grape Seeder.

Seeds a lb. in 5 minutes.
Price only\$0.75

Enterprise Sausage Stuffer, Fruit and Lard Press.

No.	Wt.	Jpd.
15-2 qt.	21 lbs.	\$3.60
25-4 qt.,	30 lbs.	4.35
35-8 qt.,	44 lbs.	5.75

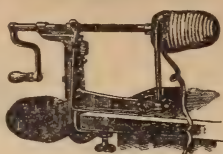
Blizzard Powder Guns.

Holds 2 ounces of Powder. Made with a screw cap instead of a cork.
Price postpaid\$0.15

Acme Powder Bellows.

For the extermination of insects, etc.

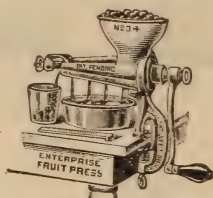
No.	Price.	Postpaid.
No. 9.....	\$0.55	\$0.65
No. 14.....	.65	.85
No. 19.....	.75	1.05
No. 22.....	1.20	1.50

Potato Parer.

Pares thinner than any other parer. Cleans out the eyes nicely.
Price\$0.70
By mail 1.00

No. 720, Almond Grater.

Will not choke up.
Price only\$0.80
By mail\$1.30

Enterprise Fruit, Wine and Jelly Press.

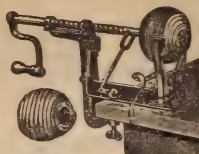
No.	Wt.	Capa.	Price.
34-12½ lbs.	1 qt.		\$2.90

Coffee and Spice Mill.

To be screwed to the wall or any convenient place in the kitchen.
Grinds six ounces of coffee per minute.
Capacity of Hopper 4 oz., weight 6 lbs., height 9 inches.
Price\$1.25

Osborne Hand Cultivators.

The handiest Tool of its kind in the market, weight 7 lbs.
With Leaf Guard....\$1.00
Three for 2.70

Apple Parer.

Pares, cores and slices the fruit perfectly.
Price\$0.60
By mail95

No. 1, Enterprise Cherry Stoner.

Can be adjusted by Thumb-screws to adapt it to the different sizes of cherry stones.
Price, tinned\$0.65

Rubber Plant Sprinkler.

Can be used for sprinkling plants, cut flowers, etc., also for dampening clothes and carpets.

Nos.	1	2	4
Size, oz.	12	7	4½
Price	\$1.00	75	50
Postpaid	1.10	85	60

Farm Bells.

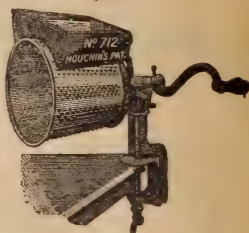
No.	Diam.	Wt.	Price.
1-15 inches,		40 lbs.	\$1.25
2-17 inches,		50 lbs.	1.50
3-19 inches,		75 lbs.	2.20
4-21 inches,		100 lbs.	2.85

Slug Shot or Plaster Sifter.

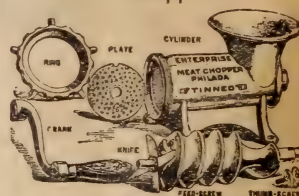
With this Sifter one can cover 8 to 10 acres per day.
Nos. 1 2
Size, qt 2 4
Price\$0.35 50
If by mail, add 15c to 2 qt., 20c to 4 qt. size.

No. 711, Revolving Slicer.

For slicing Apples, Saratoga Potatoes, Pumpkins, Cucumbers, and other vegetables.
Price only\$0.45
By mail80

No. 712, Revolving Grater.

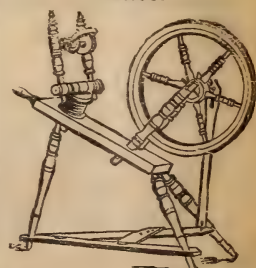
Same as No. 710, only larger and stronger.
Weight, 8½ lbs.
Price only\$1.35
(Cannot be sent by mail.)

Enterprise Meat and Food Chopper.

No.	Wt.	Cap. per minute.	Price.
5-4¾ lbs.	1 lb.		\$1.75
10-8 lbs.	2 lbs.		2.65
20-16½ lbs.	3 lbs.		4.35

Enterprise Sausage Stuffer.

Can be attached to all the principal sizes of Enterprise meat choppers. Easily attached.
For chopper Nos. 5 10 20
Price\$0.30 .35 .45

Farmers' Spinning Wheel.

Made of the best hardwood, strong and durable.
Weight 15 lbs. Price \$3.25
Wool cards, per pair. 60
Wool cards, by mail. .75

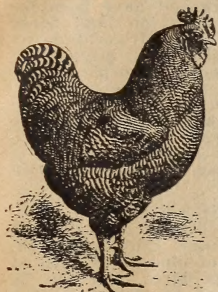
EGGS FOR HATCHING.

Our pens are mated with strictest attention to Fertility. We carry no eggs in stock at our stores, but gather those laid after receiving orders, thus insuring fresh-laid eggs. We Pack with utmost care and ship by express from our yards, customers paying express charges.

No eggs are likely to hatch that are set within thirty-six hours after a jolting journey on the cars, nor those placed under a lousy or unsteady hen, or in an unclean or loosely constructed nest. We will do our best to satisfy our customers; can not guarantee any number of eggs to hatch.

BARRED PLYMOUTH ROCKS.

(American Class.)



Heads the list as the best and most popular general purpose fowl. One of the very best for table, excellent layers, good sitters and mothers, excellent foragers and as handsome as they are good. The head and comb are of medium size, the latter being single; broad back and breast. The legs are yellow. The body color is of a grayish white with parallel bars of blue black crossing each feather regularly.

Price, 1 Setting, 15 Eggs, \$1.75
Price, 2 Settings, 30 Eggs, 3.25
Incubator Eggs, \$8.00 per 100

BLACK LANGSHANGS.

(Asiatic Class.)

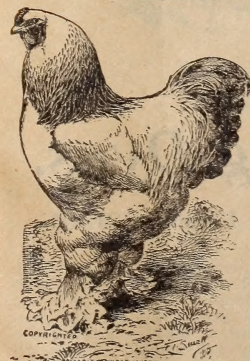


America's latest acquisition from Asia. Their breast is full, broad and round and carried well forward, showing plenty of meat. They are one of the best table fowls and are among the best winter layers of large eggs. Their plumage is a rich metallic black. The color of the legs and skin is against them as a market fowl, but their other good points keep them well to the front in popularity. Cocks and hens weigh 10 and 8 pounds each at maturity.

Price, 1 Setting, 15 Eggs, \$1.75
Price, 2 Settings, 30 Eggs, 3.25
Incubator Eggs, \$8.00 per 100.

LIGHT BRAHMAS.

(Asiatic Class.)

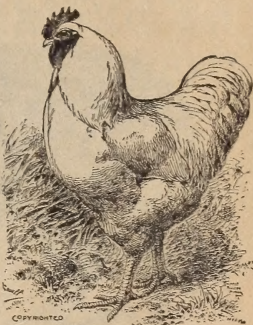


This breed almost weigh like turkeys. A splendid table fowl, a good layer, does not suffer much from severe cold, and make good broilers. They bear confinement well and while they are considered good foragers on a farm, they are a superior fowl to keep on a city or village lot. A three foot fence will keep adult Brahmans. They reproduce themselves remarkably true.

Price, 1 Setting, 15 Eggs, \$1.75
Price, 2 Settings, 30 Eggs, 3.25
Incubator Eggs, \$8.00 per 100.

WHITE PLYMOUTH ROCKS.

(American Class.)



A New England production. The honors belong to O. F. Frost of the state of Maine, who about ten years ago secured the first stock from his Barred Rocks which sported some white birds. From these specimens practically sprang the family now so popular and which are coming farther to the front every day. Having a plump, full breast, and a bright lemon yellow skin, they possess good characteristics for table purposes.

Price, 1 Setting, 15 Eggs, \$1.75
Price, 2 Settings, 30 Eggs, 3.25
Incubator Eggs, \$8.00 per 100.

WHITE WYANDOTTES.

(American Class.)



A deservedly popular breed, which make the earliest and finest broilers. They are very attractive, a deep, round, plumpy body, small neat rose comb, rich red wattles and lobes and bright yellow shanks. They are great winter layers, laying a large brown egg just at the season of the year when eggs are scarce and high and the smaller breeds have suspended business until warmer weather.

Price, 1 Setting, 15 Eggs, \$1.75
Price, 2 Settings, 30 Eggs, 3.25
Incubator Eggs, \$8.00 per 100.

SINGLE COMB WHITE LEGHORNS.

(Mediterranean Class.)



This is the "Business Hen." They are non-setters, their business is to lay eggs. They are unequalled as egg producers. Easiest chicks to raise. The chicks are hardy and lively and almost before you know it they are full feathered. As to appearance, no handsomer flock of fowls can be found. What they lose in size, in comparison with the big breeds as a table fowl, they more than make up as layers. They are good foragers.

Price, 1 Setting, 15 Eggs, \$1.75
Price, 2 Settings, 30 Eggs, 3.25
Incubator Eggs, \$8.00 per 100.

Thoroughbred Poultry and Pigeons.

We will not attempt to list stock because so much depends upon the quality, size, color, variety and ancestors, all of which governs price in value, that it is necessary to quote each pen or specimen separately. Please describe your wants and if we have anything to suit, we will name you prices.

Rough-Coated Scotch Collies.

A DOG THAT EVERY FARMER NEEDS.



The Rough-Coated Collies are, perhaps, the most sagacious of all animals of the canine race. Besides being the necessary friends and assistants of the shepherd and stockman, they are of great value to any farmer keeping live stock, as they need but little training before they learn to drive and herd sheep, cattle, horses, and even pigs. They are splendid watch dogs, being very courageous and quick of hearing; they are and have been for some time the most popular of companions and house dogs, and well deserve their place. Apart from his great beauty, his heavy coat, finely chiseled head, bright eyes and symmetric build, the Collie's devotion to his master and fondness for children are sometimes almost human. "There is no breed of dogs with such a wise look as the Collie; the heavy responsibilities that rest on him give him a sedate and sonse, or knowing look, and his whole appearance is so engaging that it is no wonder he is such a general favorite with the public, especially with ladies."

BREEDING.

Our Stud Dogs and Breeding Bitches are all pedigreed and registered in the American Kennel Club Stud-book, and in their veins runs the bluest of blue blood. All of our Puppies are furnished with pedigree, and can be registered at an additional cost of \$1, which is the Club's fee.

PRICES.

Prices of Puppies largely depends upon breeding and individual specimens. We can mostly supply good males at 10 to 15 Dollars each, and females at 8 to 10 Dollars each; 18 to 25 Dollars per pair.

For extra selected Puppies we get from 15 to 25 Dollars each.

ORDERS FILLED IN ROTATION.

Improved German Household Dyes.

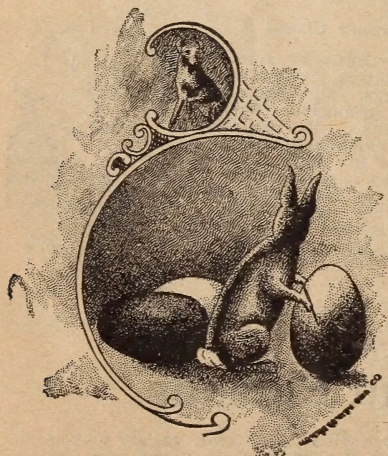
No lady will ever realize the satisfaction that may be obtained by the use of these wonderful Dyes for Home Dyeing, the little work connected with same and the immense saving of money, until she has had a chance to give these greatest of all package Dyes a trial.

These Dyes are the only Dyes to color wool, cotton, silk and feathers with one and the same package, and their use is the easiest ever heard of any Dyes for home use, as all thirty different shades are used alike, one as easy therefore as the other.

We have the following thirty shades always on hand and will mail one package for 10 cts., three packages for 25 cts., twelve packages for \$1.00.

Each package colors one pound of white goods and from two to four pounds in proportion of goods to over-colored. One package of black colors one pound.

No. 1 Black, No. 2 Imperial Blue, No. 3 Coffee Brown, No. 4 Scarlet No. 5 Dark Red, No. 6 Navy Blue, No. 7 Magenta, No. 8 Dark Gray, No. 9 Violet, No. 10 Dark Green, No. 11 Bismarck Brown, No. 12 Yellow, No. 13 Cardinal Red, No. 14 Olive Green, No. 15 Slate, No. 16 Rose, No. 17 Drab, No. 18 Orange, No. 19 Chamolli Brown, No. 20 Claret, No. 21 Purple, No. 22 Terre Cotta, No. 23 Chinese Blue, No. 24 Turkey Red, No. 25 Bright Yellow Green, No. 26 Dark Brown, No. 27 Violet Blue, No. 28 Dark Blue, No. 29 Ponceau Red, No. 30 Peacock Green.



American Egg Dyes.

GUARANTEED TO BE FREE FROM POISON.

EACH package contains 12 colors and picture designs, five of which produce bright and pretty shades, such as Green, Blue, Violet and Red, and seven are attractive designs, among which are pictures of Presidents Roosevelt and Washington, and for the real little ones, one of the prettiest Easter Picture, a rabbit jumping the nest full of Easter Eggs, and besides this, pretty marble shades, all of which are transferable to the eggs, producing such color combinations as will

GLADEN THE HEARTS OF THE CHILDREN.

As you love the little ones, you will surely spend 5 cts to please them. Only 5 cts. per package, one or a 100.



**FACTORY
SESTO-MILAN
ITALIA**

PRESSER'S PRESERVATIVE

Original-Carbolineum



TRADE MARK

G. PRESSER

The best
**PRESERVING OF
WOOD, STONE etc.**
Principal Works in
GAU ALGESHEIM
GERMANY.

Original Carbolineum = Presser's Preservative

A WOOD PRESERVING AND IMPREGNANT PAINT WITHOUT EQUAL.

Beware of Imitations.

Original Carbolineum has been in use for over twenty years and has given the best of satisfaction. It is better and cheaper than Linseed Oil Paint. It only comes in Liquid form, remains a Liquid for years, is always ready for use and does not evaporate and become dry like other paints.

This is the only genuine article on the market. It is manufactured by Geo. Presser, Chemist in Gau Algesheim, Germany, with branch factories in Lieben Prag, Austria and Sesto-Milan, Italy.

ITS USEFULNESS:

AS AN IMPREGNATING PAINT.

IT is an excellent antiseptical impregnant and covering and the best known product for the preservation of wood and to keep brick and stone walls that are subject to dampness, dry and from becoming mouldy.

FOR preserving all kinds of wood work it has no equal. It is an antiseptic oil stain of a nut brown color which will deeply penetrate wood when applied with a brush or sprayer. Its covering capacity makes it the cheapest and best paint for all farm buildings, such as barns, granaries, stables, silos, fences, etc.

FENCE-POSTS, floors, sidewalks, in fact all wood-work, whether below or above ground, will never rot or break down if coated with Original Carbolineum. Shingled roofs will never leak nor shingles rot or warp if painted with it. Troughs, tanks, cisterns and cellars will always be clean and fresh if given a coat of Original Carbolineum.

AS AN EXTERMINATOR AND DISINFECTANT.

IT is a most efficient remedy against all vermin. A coat of Original Carbolineum on the inside walls of your barn, sheds or chicken coops will destroy all insect life and keep away all vermin. One application a year will do.

ONE of our Customers says: "I never had a louse in my chicken coop since using Original Carbolineum. I paint my coops and barn once a year with it and it does the business." This party has 300 to 400 chickens and certainly knows whereof he speaks when he recommends a good thing.

AS a disinfectant it also is valuable. One-fifth pint to a pailful of water to scrub out houses, etc., will do wonders. For drains and filthy sewers pour quarter cup of Original Carbolineum into drain or sewer and clean out.

TO destroy bed bugs, cockroaches, ants, etc., use one part to ten parts of water and apply to infected places.

DIRECTIONS FOR USING.

To gain best results, Original Carbolineum should be slightly warmed if applied in cold weather. In summer never apply during hottest time of day. Apply with brush or sprayer.

COVERING CAPACITY.

One Gallon will cover 300 square feet dressed lumber, 1 coat. One gallon will cover 250 square feet rough lumber, 1 coat. One gallon will cover 100 square feet shingle roof, 1 coat.

If a second coat is necessary, only $\frac{1}{4}$ the quantity additional. All underground work should have two coats and care should be taken that the ends of the wood is well saturated.

PRICES CASH WITH ORDER.

1 Gallon, Weight 8 lbs.	\$1.00	} Prepaid by freight to all Railway Stations in Wisconsin, Iowa, Minnesota, Michigan, Nebraska, Kansas, Missouri, Illinois, Indiana, Ohio and Oklahoma. If purchaser wishes to pay freight, 5 cents per gallon can be deducted from these prices.
5 Gallons, Weight 50 lbs.	4.50	
10 Gallons, Weight 100 lbs.	8.50	
25 Gallons, Weight 250 lbs.	20.00	
50 Gallons, Weight 500 lbs.	35.00	

SEND YOUR ORDERS DIRECT TO

WERNICH SEED CO., "AGENTS."

27 JUNEAU AVENUE, MILWAUKEE, WIS.

AVERAGE YIELD 100 TONS

GREEN FODDER PER ACRE

TEOSINTE

PRODUCES ENORMOUS SUPPLY OF
FODDER GROWS 12 FT HIGH
ONE PLANT IS CONSIDERED SUFFICIENT
TO FEED A PAIR OF CATTLE 24 HOURS
PKG. 10¢. OZ. 20¢. 1/2 LB. 40¢. 1 LB. 85¢.

Agricultural College, Wisc., Nov. 29, 1901.
W. C. Smith Seed Co., Milwaukee, Wis.
Description: We have this year harvested from
our 1897 seedling of SAND LUCERNE, four crops
raised by us follow:
Jan 15, 4,263 lbs. Aug 14, 3,538 lbs.
May 12, 4,207 lbs. Dec. 1, 1,698 lbs.
Total per acre, 13,889 lbs.
Our experience will be published shortly in
the Journal of the American Society of Plant Pathologists.

BRAZILIAN FLOUR CORN

20 STALKS HAVE GROWN FROM ONE KERNEL
5 EARS EACH STALK. J. F. PRINTER, MILWAUKEE.
REPORTS: "A PECK SEED YIELDED CROWN 3000
POB. 30 CATTLE FOR 4 WEEKS. STANDING ON
ONE SPOT I CUT ENOUGH FOR ONE FEED FOR 30 HEAD
PKG. 10¢. PT. 20¢. QY POST PAID 30¢.